233362

CONTRACT PRICING PROPOSAL COVER SHEET

1. SOLICITATION/CONTRACT/MODIFICATION NO. (RFP): DACW41-02-D-0003 Task Order 0011

FAR Part 15.408 Table 15-2

NOTE: This form is used in contract actions if submission of cost or pricing data is required. *(See Far 52.215-20)*

2. NAME AND ADDRESS OF OFFEROR *(Include ZIP Code)*

MALCOLM PIRNIE, INC.
104 CORPORATE PARK DRIVE
WHITE PLAINS, NY 10602

3A. NAME AND TITLE OF OFFEROR'S POINT OF CONTACT: KENNETH J. GOLDSTEIN, CGWP

3B. TELEPHONE NO.: (914) 694-2615

4. TYPE OF CONTRACT ACTION *(Check)*

	A. NEW CONTRACT		D. LETTER CONTRACT
	B. CHANGE ORDER		E. UNPRICED ORDER
	C. PRICE REVISION/ REDETERMINATION	X	F. OTHER *(Specify)* New DO on Existing Contract

5. TYPE OF CONTRACT *(Check)*

[ ] FFP [X] CPFF [ ] CPIF [ ] CPAF
[ ] FPI [ ] OTHER *(Specify)*

6. PROPOSED COST *(A+B=C)*

A. COST	B. FIXED FEE	C. TOTAL
$656,082	$42,841	$698,923

7. PLACE(S) AND PERIOD(S) OF PERFORMANCE
LOWER PASSAIC RIVER STUDY AREA, NEW JERSEY
AUGUST 15 - DECEMBER 31, 2005

8. List and reference the identification, quantity and total price proposed for each contract line item A line item cost breakdown supporting this recap is required unless otherwise specified by the Contractin *(Continue on reverse, and then on plain paper, if necessary. Use same headings.)*

A. LINE ITEM NO.	B. IDENTIFICATION	C. QUANTITY	D. TOTAL PRICE	E. REF.
WAD 4	Project Management and Community Relations (WO's 1 - 3)	See Section 6, Above		Please see enclosed estimate
WAD 5	Technical Studies and Investigations (WO 5)	See Section 6, Above		
WAD 6	Data Management and Presentation (WO's 2 and 7)	See Section 6, Above		

9. PROVIDE NAME, ADDRESS, AND TELEPHONE NUMBER FOR THE FOLLOWING *(If available)*

A. CONTRACT ADMINISTRATION OFFICE

KANSAS CITY DISTRICT, U.S. ARMY CORPS OF ENGINEERS
700 FEDERAL BUILDING
KANSAS CITY, MO 64106
(816) 983-3827

B. AUDIT OFFICE

U.S. ENVIRONMENTAL PROTECTION AGENCY
290 BROADWAY
NEW YORK, NY 10007
(212) 637-3046

10. WILL YOU REQUIRE THE USE OF ANY GOVERNMENT PROPERTY IN THE PERFORMANCE OF THIS WORK? *(If "Yes," identify)*

As identified in the solicitation

[X] YES [ ] NO

11A DO YOU REQUIRE GOVERNMENT CONTRACT FINANCING TO PERFORM THIS PROPOSED CONTRACT? *(If "Yes," complete Item 11B)*

[X] YES [ ] NO

11B. TYPE OF FINANCING (x one)

[ ] ADVANCE PAYMENTS [X] PROGRESS PAYMENTS
[ ] GUARANTEED LOANS

12. HAVE YOU BEEN AWARDED ANY CONTRACTS OR SUBCONTRACT FOR THE SAME OR SIMILAR ITEMS WITHIN THE PAST 3 YEARS? *(If "Yes," identify item(s), customer(s) and contract number(s))*

[X] YES [ ] NO

13. IS THIS PROPOSAL CONSISTENT WITH YOUR ESTABLISHED ESTIMATING AND ACCOUNTING PRACTICES AND PROCEDURES AND FAR PART 31 COST PRINCIPLES? *(If "No," explain)*

[X] YES [ ] NO

14. COST ACCOUNTING STANDARDS BOARD (CASB) DATA *(Public Law 91-379 as amended and FAR PART 30)*

A. WILL THIS CONTRACT ACTION BE SUBJECT TO CASB REGULATIONS? *(If "No," explain in proposal)*

[X] YES [ ] NO

B. HAVE YOU SUBMITTED A CASB DISCLOSURE STATEMENT *(CASB DS-1 or 2)? (If "Yes," specify in proposal the office to which submitted and if determined to be adequate)*

[X] YES [ ] NO

C. HAVE YOU BEEN NOTIFIED THAT YOU ARE OR MAY BE IN NONCOMPLIANCE WITH YOUR DISCLOSURE STATEMENT OR COST ACCOUNTING STANDARDS? *(If "Yes," explain in proposal)*

[ ] YES [X] NO

D. IS ANY ASPECT OF THIS PROPOSAL INCONSISTENT WITH YOUR DISCLOSED PRACTICES OR APPLICABLE COST ACCOUNTING STANDARDS? *(If "Yes," explain in proposal)*

[ ] YES [X] NO

This proposal reflects our estimates and /or actual costs as of this date and conforms with the instructions in FAR 15.403-5(b)(1) and Table 15-2. By submitting this proposal, we grant the Contracting Officer and authorized representative(s) the right to examine, at any time before award, those records, which include books, documents, accounting procedures and practices, and other data, regardless of type and form or whether such supporting information is specifically referenced or included in the proposal as the basis for pricing, that will permit an adequate evaluation of the proposed price.

15. NAME AND TITLE *(Type)*: KENNETH J. GOLDSTEIN, CGWP, VICE PRESIDENT

16. NAME OF FIRM: MALCOLM PIRNIE, INC.

17. SIGNATURE

18. DATE OF SUBMISSION: 08/17/2005

Table 15-2 (Replaces SF1411)

Table 15-2 (REV. Jan 1-98)
Prescribed by DFAR Circular 97-2
FAR Part 15.408, Table 15-2

USACE - Kansas City District
Request for Authority To Proceed
ATP 10

1. T.O. No. 0011 Contract No. DACW41-02-D-0003 Date: 17-Aug-05

WAD No. 4-7 WO No. See Attachment 1 WE No. See Attachment 1

2.		Engineering	Construction	Closeout	Fee	Total
	A. CURRENT STATUS					
	A. Negotiated	$ 9,986,928	$ 0	$ 0	$ 539,869	$ 10,526,797
	B. Obligated	$ 3,133,186	$ 0	$ 0	$ 183,802	$ 3,316,988
	C. Authorized	$ 3,133,186	$ 0	$ 0	$ 183,802	$ 3,316,988
	B. AMOUNT REQUESTED					
	A. Negotiated	$ 656,082	$ 0	$ 0	$ 42,841	$ 698,923
	B. Obligated	$ 3,605,524	$ 0	$ 0	$ 194,624	$ 3,800,148
	C. Authorized	$ 3,605,524	$ 0	$ 0	$ 194,624	$ 3,800,148
	C. REQUESTED STATUS					
	A. Negotiated	$ 10,643,010	$ 0	$ 0	$ 582,710	$ 11,225,720
	B. Obligated	$ 6,738,710	$ 0	$ 0	$ 378,426	$ 7,117,136
	C. Authorized	$ 6,738,710	$ 0	$ 0	$ 378,426	$ 7,117,136

3. A. Amount of this request $ 3,800,148 Date Required 15-Aug-05

B. Fund Source WBS: New Funds

C. Fund Destination WBS: See Attachment 1

4. Description of work covered by this request: See attached sheet.

5. Attachments showing Work Order/Activity Breakdown: See Attachment 1.

6. Conditions

a. See initial cost proposal submitted on August 2, 2005.

Proposal Dated	23-Sep-02	24-Feb-03	18-Nov-03	08-Jan-04
7 Other	22-Jul-04	3-Mar-05	17-Aug-05	

Malcolm Pirnie, Inc. Approval

Malcolm Pirnie, Inc. Project Manager — Date 8/17/05

Malcolm Pirnie, Inc. Project Officer — Date 8/16/05

USACE Approval

USACE Technical Manager — Date

Contracting Officer's Representative — Date

Lower Passaic River
T.O. 0011, Mod. 07
August 17, 2005

Work Variance Notification No. 9 for Lower Passaic River Restoration Project
Malcolm Pirnie, Inc.
Contract No. DACW41-02-D-0003

Task	Currently Approved Requirements (ATP 9)	Additional Funds Proposed	Amt of Funding Proposed from Tech Support	Source of Funds	Rationale for Source of Funds	Technical Justification
WAD 03, WO 04, WE 4.2b	$29,676	$82	$0	WAD 03, WO 04, WE 4.2a	Minish Park Data Upload task will require $5400 based on Battelle lump sum proposal dated April 21, 2005 and Malcolm Pirnie review effort, which is less than the obligated amount of $6,532.	Funds are to be allocated to address a slight overage in the task.
WAD 03, WO 05, WE 5d	$36,972	$5,350	$5,350	WAD 04, WO 03, WE 3.3a	Redistribution of monies from Technical Support.	Funds were reallocated from this task in WVN 8; however, subcontractor invoicing had not been fully taken into account.
WAD 03, WO 05, WE 5g	$11,066	$1,236	$236	WAD 03, WO 04, WE 4.2a and WAD 04, WO 03, WE 3.3a	Minish Park Data Upload task will require $5400 based on Battelle lump sum proposal dated April 21, 2005 and Malcolm Pirnie review effort, which is less than the obligated amount of $6,532. An additional $236 will be redistributed from Technical Support.	Funds were reallocated from this task in WVN 8; however, subcontractor invoicing had not been fully taken into account.
WAD 04, WO 02, WE 2.2b	$14,354	$39,931	$0	WAD 04, WO 02, WE 2.2a and new cost proposal	WAD 04, WO 02, WE 2.2a was completed underbudget; therefore, these monies will be redistributed.	The number of required drafts and stakeholder reviews was increased signficantly from the proposed effort by USEPA.
WAD 05, WO 01, WE 1.2b	$68,763	$8,833	$1,469	WAD 05, WO 01, WE 1.3; WAD 05, WO 01, WE 1.4a; WAD 04, WO 03, WE 3.3a	WAD 05, WO 01, WEs 1.3 and 1.4a were completed underbudget; therefore, these monies will be redistributed. An additional $1469 will be redistributed from Technical Support.	Additional effort was required to research and reconcile the Mean Low Water datums on the 1989 and 2004 USACE and TSI bathymetric surveys.
WAD 05, WO 01, WE 1.4d	$6,934	$3,031	$3,031	WAD 05, WO 01, WE 3.3a	Funding will be redistributed from Technical Support.	The DQO development effort for this project is extremely complex and has received extensive comments and input from the stakeholders, TAC, and team members.
WAD 05, WO 01, WE 1.4e1	$22,176	$852	$852	WAD 05, WO 01, WE 3.3a	See note for WAD 05, WO 01, WE 1.4d above.	This task was slightly overbudget.
WAD 05, WO 01, WE 1.4e2	$2,522	$599	$599	WAD 05, WO 01, WE 3.3a	See note for WAD 05, WO 01, WE 1.4d above.	This task was slightly overbudget.
WAD 05, WO 01, WE 1.5b	$88,830	$80,929	$0	New cost proposal	NA	Additional effort was expended on the Draft WP and FSP Volume 1 under client direction to produce an implementable set of documents in Spring 2005.
WAD 05, WO 01, WE 1.5c	$25,258	$75,091	$0	New cost proposal	NA	This task will require significant additional effort to definitize the water column sampling program and address the large number of detailed comments received on the Conceptual Site Model and specific field sampling methodologies.
WAD 05, WO 01, WE 1.6a	$22,567	$23,710	$0	New cost proposal	NA	Additional effort was expended on both the Pre-Draft and Draft QAPP tasks, under client direction to produce an implementable set of documents in Spring 2005. Some effort that should have been charged to the Draft QAPP task was continuously charged to the pre-draft task. Significant effort was expended to coordinate/assess the feasibility of the requested Reporting Limits for each parameter based on the data needs and DQOs for each team member (e.g., extremely sensitive RLs required for BERA and HHRA-related data).
WAD 05, WO 01, WE 1.6b	$29,085	$8,146	$529	WAD 05, WO 01, WE 1.7a; WAD 05, WO 01, WE 1.7b; WAD 04, WO 03, WE 3.3a	WAD 05, WO 01, Wes 1.7a and 1.7b were completed underbudget; therefore, these monies will be redistributed. The remaining $529 will be transferred from Technical Support.	See note for WAD 05, WO 01, WE 1.6a above.
WAD 05, WO 01, WE 1.6c	$11,046	$20,000	$0	New cost proposal	NA	This task will require significant additional effort to adapt the QAPP to reflect the methods and reporting limits selected during laboratory subcontract negotiation, final field programs, and to respond to the volume of comments received on the QAPP, DQOs, and data types/data uses table.
WAD 06, WO 03, WE 3.1	$31,276	$10,179	$0	WAD 06, WO 05, WE 5.2	$0 change to address error in task charges	See note to left.
WAD 06, WO 03, WE 3.2	$21,294	$18,211	$0	WAD 03, WO 05, WE 5.e and 5.f	$0 change to close WAD 03.	WAD 06 scope to be increased to reflect reorganization of funds.

Proposal Clarifications for Lower Passaic River Restoration Project
Remedial Investigation / Feasibility Study

WAD 04 – Project Management and Community Relations

WO 1 – Project Management and Administration

1.2 – Project Support Documentation and Administration (2005)

Battelle: 51 hours. Battelle will prepare monthly budget status reports and progress reports, invoices, and additional weekly project reports and schedule updates. Costs for administrative and project support activities are based on 6 months in 2005 (June through December).

2005 EV & Progress reports:	PM	1.5 h/month (6 months); 9 h
	Researcher	1 h/month (6 months); 6 h
2005 Monthly invoicing:	PM	1h/month (6 months); 6 h
	Project Administrator	1h/month (6 months); 6 h
2005 Weekly progress:	PM	1/h week (24 weeks); 24 h

Deliverables: Monthly budget status and progress reports, weekly progress updates

1.4 – Project Communications

Battelle: 442 hours. Battelle will provide key project management and technical staff for teleconferences on various technical topics. These calls are necessary for brainstorming project strategies and technical approaches to tasks, or general exchange of information specific to a project task. Costs for technical topic calls are based on 6 months in 2005 (June through December). Additionally, Battelle project management staff will keep abreast of technical information updates on PREmis and monitor task activities on the project schedule on a regular basis. Costs for monitoring PREmis are based on 6 months in 2005 (June through December) for project management staff.

Hours are also proposed for an additional Battelle staff member to participate in weekly project management calls from June through December 2005.

Battelle staff will attend quarterly progress/strategy meetings at Pirnie's offices in Fair Lawn, NJ. Costs for meetings are based on 2 staff attending each of 2 meetings in 2005. These meeting units can also be used for meetings held at EPA's offices in New York, NY. Travel costs also include 1 trip each for 3 staff from Boston, MA and/or Columbus, OH to New York, NY for the Risk Assessment Workshop planned for September 2005.

Weekly Management Calls: 24 weekly calls, 6 months, 0.5 h/week for Gunster

2005 Technical topic teleconferences: 3, 1-h calls/month, 6 months
3 h/month Barrows 18 h; 3 h/month Gulbransen 18 h; 3 h/month Gunster (or Durell) 18 h; 3 h/month Richardson 18 h; 3 h/month Rodgers 18 h; 3 h/month Gnatek (or Schaub) 18 h

PREmis schedule and update review 2005: 6 h/month, 6 months for Barrows 36 h

2005 Battelle attendance at quarterly progress/strategy meetings at Pirnie's offices in Fair Lawn, NJ - 2 staff/meeting, 2 meetings. Assume 1 meeting Gulbransen from NY-8 h; 1 meeting Barrows from NY-8 h; 1 meeting Gunster (or Durell) from MA-12 h, 1 meeting Richardson from MA-12 h.

Travel Expenses from Boston, MA, and/or Columbus, OH to Fair Lawn (Newark), NJ or New York, NY-2005 (Includes Risk Assessment Workshop - 3 staff 2 days Boston, MA or Columbus, OH to NY.)

Airfare	$498
Mileage to-from airport (50 mi @ $0.40/mi; $5 tolls; $20 parking	$45
Car Rental airport to Fair Lawn	$80
Lodging	$165
Meals	$46
Cost per Trip	$788
Number of Trips	5
Total	**$3940**

Travel Expenses from Stony Brook, NY to Fair Lawn, NJ

Train fare	$35
Lodging	NA
Meals	$25
Cost per Trip	$60
Number of Trips	2
Total	**$120**

BERA Workshop

Under Project Communications, Battelle will participate in planning and preparation, attendance, and post-meeting activities for the Baseline Ecological Risk Assessment (BERA) Workshop.

Planning and preparation activities are broken down as follows. Time for each of these activities also includes teleconferences and presentation materials.

- Identification of Chemicals of Potential Ecological Concern (COPECs). Develop a flow schematic depicting recommended approach; identify candidate screening values; identify list of questions for discussion (*e.g.*, use of background, limiting wildlife exposure modeling to bioaccumulators only, role of professional judgment in streamlining process to focus on significant risk drivers, *e.g.*, aluminum); identify and understand differences between existing lists.
- Environmental Fate and Effects of COPECs. Provide several draft matrices (one per each distinct fate category) or figures that depict chemical class, environmental fate, primary ecotoxicological effects, and affected receptors of concern (ROCs).
- Key Exposure Pathways. List all potentially complete exposure pathways and provide recommendations and detailed rationale for those to be quantitatively evaluated in the BERA.
- Ecological Receptors Potentially at Risk. Prepare list of distinct receptor groups and provide recommendations and detailed rationale for those that should be evaluated in the BERA; develop a matrix of selection criteria for the ROC selection process.

- Overview of Conceptual Site Model (CSM). Discuss integration of existing pathways figure with the geochemical CSM. Discuss matrices (figures) prepared for Environmental Fate/Effects category above depicting primary ecological effects to each ROC associated with each chemical class.
- Risk Hypotheses. Prepare detailed list of candidate risk questions (and examples of different formulations of risk questions including probabilistic) for each assessment endpoint for discussion and consensus.
- Assessment Endpoints. Prepare comprehensive list of candidate assessment endpoints and recommendations and detailed rationale for those that should be evaluated in the BERA; prepare different formulations of assessment endpoints (including probabilistic) for discussion and consensus.
- Measurement Endpoints. Prepare comprehensive list of candidate measurement endpoints and recommendations and detailed rationale for those that should be included in the BERA.
- Identify Gaps in Field Sampling Plan (FSP) Relative to Data Quality Objectives (DQOs). Prepare a comprehensive summary of proposed studies in FSP 2 and evaluate linkages to the established DQOs.
- Risk (including Uncertainty) Characterization. Prepare memorandum (including example tables, if necessary) that presents options, makes recommendations, and provides rationale for proposed risk characterization methodology, weight of evidence (WOE) approach, and risk categorization (*i.e.*, high/low). Identify and rank preliminary list of risk uncertainties.

Total proposed effort for Risk Assessors (Gunster, Richardson) 78 h; for Researchers (Schaub, Gnatek, Manley) 78 h
Travel (6 h/person) – travel expenses addressed above
Attendance, 2-day meeting (Gunster, Richardson, Rodgers) (16 h/person)
Post-meeting activities (8 h /person)

Deliverables: Presentation materials, "white papers," and other handouts for the BERA workshop, workshop minutes, QC Checklist.

WO 2 – Community Relations

2.2b – Draft Community Involvement Plan (2005)

MPI: 272 hours. The November 18, 2003 proposal / negotiated budget contemplated a single draft for agency review of a Lower Passaic River Restoration Project Community Involvement Plan (CIP). Since that time, the CIP effort for the LPRRP has been combined with that for the Newark Bay study, with both projects contributing to the funding. In addition, EPA has restructured the CIP development process. An iterative series of drafts is now required to accommodate an expanded set of reviews by partner agencies, stakeholders and the public, leading up to a public forum for the two projects and preparation of the final CIP. It is now anticipated there will be at least four separate formal drafts prepared, along with numerous informal submittals for collaborative development with EPA's community involvement coordinator for the projects. At each stage, comments will be compiled by EPA and provided to Malcolm Pirnie for preparation of the next revision to the document.

In addition to these activities, Malcolm Pirnie is required to prepare for and facilitate a minimum of two all-day strategy/planning/review sessions for receipt and discussion of agency comments on the CIP. The third and fourth formal drafts involve multiple iterations of a greater number and complexity of graphics than originally envisioned. Research required on demographics and other topics, as well as manipulation of the associated data, are more extensive than originally assumed. Community interviews required less budget than originally envisioned, so the excess has been redirected to this task (refer to WVN 9); the following level of effort (LOE) is required above that amount to complete the draft CIP development effort:

Deliverables: Draft CIP, QC Checklist (4).

WAD 05 – Technical Studies and Investigations

This WAD provides for: Responses to additional comments on the Final Modeling Plan; completion of the Draft and Final WP/FSP Volumes 1 and 3; and completion of the Pre-Draft and Final QAPP. The following work orders are proposed:

WO No. 1 – RI/FS Work Plan Preparation

1.4c – Response to Comments/Final Modeling Plan – Response to Additional Comments

MPI: 36 hours. HQI: 116 hours. For the Draft Final Modeling Plan, HydroQual was tasked to respond to Technical Advisory Committee (TAC) and Agency comments and prepare a Draft Final submittal. Because of the more extensive array of commenters, including EPA reviewers, PRPs and their consultants, and other stakeholders, as well as more focused understanding of the nature of the issues of concern to the reviewers (including those of the TAC), a greater effort is required by HydroQual to respond to comments and prepare the Final Modeling Plan than assumed when preparing the November 18, 2003 proposal. In addition a greater effort is required for Malcolm Pirnie to perform the quality control (QC) review of the pre-final document prior to finalization for publication, as well as verify consistency between the revised Work Plan and the Modeling Plan. The original response to comments budget contemplated a much smaller group for review of the Draft Modeling Plan. MPI's effort is proposed to augment the previously authorized budget for review of the Draft Final document and comment responses. No further effort will be expended until the compiled comments are provided by USEPA and approval is given to proceed with response and document revision effort.

Deliverables: Final Modeling Plan, QC Checklist.

1.5b – Draft Final WP/FSP Volume 1

MPI: 612 hours. The Work Plan/Field Sampling Plan/Quality Assurance Project Plan scopes and budgets were originally negotiated in the fall of 2003. Since that time, a number of changes to the initially agreed-upon elements of work and project task sequence have occurred, many quite recently. These changes have required greater expenditures than anticipated to complete activities accounted for under the original budget.

In the revised proposal, dated November 18, 2003, an orderly process was envisioned in which comments on the preliminary draft document by partner agencies compiled by EPA and the KC District would be considered together with results of a historical data evaluation and input from / interaction with modelers and risk assessors, and a more detailed set of rationales and procedures prepared. It was also assumed that the WRDA program would undertake companion activities in a rational sequence. The actual sequence of the work did not match the original assumptions, nor have some of the companion activities been undertaken, in some part due to funding issues, as well as significant difficulties in assembling some key historical data sets, including, for example, data collected under the CARP program and historical bathymetry data necessary for data interpretation. In addition to these general factors, a series of major events or decisions also influenced the costs incurred. These include:

1. The decision to attempt a field program of hydrodynamic modeling-oriented sampling, complementing that being performed by Rutgers under contract to NJDOT/OMR, and limited sediment stability-oriented experiments in 2004. The sediment stability experiments were delayed until 2005, and the scope was revised and expanded, resulting in the preparation of a revised Hydrodynamic Modeling Plan, which was appended to the Draft Final FSP.
2. The timing of the decision to conduct geochemical evaluations led to the work being done in the middle of the WP/FSP development process. These evaluations, authorized under an interim WVN in mid-February, began to produce results in early to mid March and increased the understanding the site, particularly in the lower six miles; this created a dynamic knowledge base and necessitated refinements and reworking of sampling rationales as the plan was being produced. This re-working was of value in refining the field program but had an immediate cost in technical time spent on the plan rationale and the need to engage modelers and risk assessors in collaboration.
3. Failure of Congress to provide sufficient funding to the NY District to carry out companion activities planned to be conducted under WRDA authorities; NY District-funded geophysical surveys should have been conducted in late 2004 or early 2005 in order to most effectively inform the design of other CERCLA-funded investigation elements (such as sediment transport experiments and sediment coring/sampling). The failure to conduct the geophysical surveys under the WRDA program as anticipated, threatened the scheduling of the sediment coring and chemical sampling program. To maintain the project schedule, a geotechnical program was designed and incorporated into the previously-prepared hydrodynamic and sediment experiment work plan noted under item no. 1 above. In addition, WP/FSP budget was expended reviewing and refining the scope (extracted from the pre-draft FSP 3) of the geophysical investigation itself, to facilitate effective direction to the geophysical subcontractor (see no. 5 below).
4. Over 2004 -2005 the project modeling needs were re-evaluated; the addition of new sampling locations caused by this re-evaluation resulted in the expansion of the 2004 work plan to include the additional locations with appropriate rationale.
5. The decision in February 2005 by OMR/NJDOT to attempt to conduct the geophysical surveys in place of the NY District required survey scope refinement and development of scope for confirmatory coring/sampling and associated reporting. In addition, text of the FSP 3 section

regarding geophysical surveys was revised/updated using FSP1 budget from the CERCLA project because neither the NY District nor OMR/NJDOT had funds in place for the team to work on the plan drafted under the WRDA framework. Revision of this effort led to subsequent removal of the geotechnical coring program from the 2004 hydrodynamic plan in favor of the FSP geophysical survey and associated confirmatory cores.

6. Addition of a senior government reviewer of the modeling and sampling effort occurred in the middle of the WP/FSP development process. Introducing a new technical reviewer late in the project planning phase required additional effort to explain the project and discuss comments. A number of topics and previously negotiated decisions had to be revisited and debated.
7. A decision to engage stakeholders in Work Groups was announced in early February, just 7 weeks before the work plans were due; this resulted in a new group of commenters (including PRPs) to accommodate in justifying program elements, which was not contemplated prior to the publication of this version of the plans in the proposed effort.

This task provides for additional funding to complete the Draft Final WP/FSP Volume 1.

Deliverables: Draft Final WP/FSP Volume 1, QC Checklist.

1.5c – Response to Comments and Final WP/FSP Volume 1

This task provides for additional funding to complete the Final WP/FSP Volume 1.

MPI: 610 hours. For similar reasons that increased draft final WP/FSP Volume 1 costs, the LOE required to respond to agency/stakeholder/TAC comments and provide a final document will also increase above that originally proposed. Stakeholder and TAC comments on the Draft Final FSP prompted a significant water column program development effort. In addition, effort is required to review USGS proposals for monitoring of the Dundee Dam and develop alternate work scopes for upstream load monitoring.

To respond to comments and to further incorporate the results of the geochemical evaluation into the planning documents (see WE 1.5b above, item no. 2), it is necessary to build a more robust geochemical conceptual site model (CSM). The new CSM will provide the appropriate basis to be updated and refined as the project unfolds. This effort addresses the geochemical and physical processes and mechanisms affecting contaminant fate and transport as underpinning for refinement of the CSM for risk assessment purposes to be performed under WAD 05, WO 2.2b.

In order to mobilize the field effort in 2005, comments on the FSP will be addressed section by section. This will allow interim approval of individual elements of the program and avoid delaying critical elements while consensus on approach/locations for other elements is reached.

Deliverables: Final WP; Final FSP Volume 1 (by section), QC Checklists.

1.5g – Revised Pre-Draft FSP 3

MPI: 33 hours. Malcolm Pirnie will update the Preliminary-Draft Field Sampling Plan (FSP) Volume 3 to a revised Pre-Draft in accordance with comments that have been provided to date. Sampling site locations will not be included in the pre-draft FSP 3. The LOE proposed is approximately 30% of that required for revision; remaining costs are being fronted by NJDOT/OMR, the WRDA sponsor.

Deliverables: Revised pre-draft FSP Volume 3, QC Checklist.

1.6a – Pre-Draft/Outline QAPP Response to Comments

MPI: 250 hours. This task provides for additional funding to complete the Pre-Draft QAPP (refer to explanation under WE 1.5b above). Charges for the preparation of the Draft QAPP were inadvertently applied to the Pre-Draft task. The additional effort on the preparation of the Draft QAPP deliverable was necessary to address the comments received on the pre-draft DQOs, coordinate with USEPA regarding CLP involvement on the project, obtain consensus among consultant team members on data needs/data uses and develop a documentary table, accommodate the elements of the developing field programs, and identify necessary reporting limits and analytical sensitivity for the required parameters. Resolving the appropriate reporting limits required a number of iterations to reach consensus on limits that are practically achievable in the preferred laboratory structure (*i.e.*, as much work as possible being done through CLP) while satisfying the concerns of risk assessors.

Deliverables: Pre-Draft QAPP.

1.6c – Response to Comments and Final QAPP

MPI: 134 hours. This task provides for additional funding to respond to comments and complete the Pre-Final QAPP (refer to note under WE 1.5b above). The effort required to complete the Final QAPP is greater than that estimated in the November 2003 proposal due to the number of comments received, the need to incorporate and integrate the field program elements still under development during the preparation of the Final WP/FSP (including updates to the DQOs and the Data Needs/Data Users Table), to complete coordination with the CLP program laboratories on required analyses and RLs, and to incorporate the laboratory-specific information on analytical methods and sensitivity available on completion of the subcontractor laboratory bidding and selection process.

Deliverables: Final QAPP, QC Checklist.

WAD 06 – Data Management and Presentation

This WAD provides for: maintenance and support of the project website (private); data analysis and interpretation; validation of data; preparation of data gap/data evaluation reports, as well as supplemental work plans for subsequent sampling events. The following work orders are proposed:

WO 2 –Public Website

2.1 – Maintenance and Support (2005)

MPI: 320 hours. Additional funding is proposed to continue maintenance and support for the public website. Under this task, Malcolm Pirnie will provide periodic information updates and technical enhancements to improve web site functionality and keep information presented on the site current. The updates to the public web site will include, but will not be limited to, documents/information supplied by USEPA, USACE and other agencies, including fact sheets, news items, Q&A, and public documents. The updates/enhancements will be performed only when requested by either USEPA or USACE. If the updates involve site layout or presentation changes, WebEx demonstrations may be used, as requested, to show the proposed changes prior to a release.

Funds are proposed to respond to requests as they are made by the USACE and USEPA. Other various technical maintenance and support functions related to the operations of the web site will also be provided on an as-needed basis.

Technical support will be provided for items including, but not limited to:

- Software and operating system upgrades (assumes quarterly addition of patches and security updates)
- General system troubleshooting.
- Maintenance for the hardware (time to run backups, and maintenance procedures)
- Modifications to reports.
- Enhancements to system functionality.

WO 7 – Data Analysis and Interpretation (2005)

7.3 – Additional Geochemical and Statistical Analysis (2005)

MPI: 2,104 hours. This work effort is designed to answer several geochemical study questions listed in a technical memorandum dated May 18, 2005 and continue the geochemical analysis and historical data evaluation for the project. These study questions build on the work and recommendations included in Attachment B of the project Work Plan, and they will continue to evolve as more data become available and the conceptual site model is further developed. Each study question listed in this memo is followed by one or more tasks that are designed to provide the analyses to address the question. Note that some tasks are listed multiple times since they address more than one geochemical question (however, these analyses are planned to be performed only once). The listed tasks should not be considered exhaustive, and additional tasks may be warranted based on the evolving findings from the stated analyses. The sequence is not strictly identical to that listed in the May 18, 2005 memo since some questions and tasks have been deferred for later evaluation or are being accomplished under previously scoped work efforts (and are not included here).

1) What more can be known about the fate and transport of solids in the Passaic River?

a) What is the long-term net amount of solids eroded / deposited within each reach of the Passaic River?
   i) Building on the bathymetric comparisons previously conducted, determine net gain of solids or net loss of solids over each river reach and across the entire river; estimate a solids mass balance for the river.
   ii) Use radionuclide data to establish local deposition rates over the full 17-mile stretch of the Lower Passaic River.

b) What is the impact of a major flow event on the movement of solids and contaminants downriver?
   i) Using the available lead-210 data, date the discontinuities that are observed in the sediment cores – match these dates to major flooding events.
   ii) Map the location of these discontinuities.

2) What is the nature and extent of historical contamination in the Lower Passaic River?

a) What is the extent of contamination in the sediment beds?
   i) Continue work started previously to map the concentration of contaminants in the sediments, including PCBs and heavy metals.
   ii) NA
   iii) Calculate the mass per unit area (MPA) for each benchmark chemical to estimate an inventory and to identify areas of concern (use of this calculation does not imply that MPA will necessarily be used or recommended as an action criterion in subsequent phases of the project).

3) What is the fate and transport of each benchmark chemical in the Passaic River?

a) How is the transport of solids affecting the fate and transport of benchmark chemicals?
   i) Identify a chemical fingerprint unique for Newark Bay and trace this fingerprint into the Passaic River. Possible fingerprints include DDT and metabolites, PCDD/F congener ratios, and heavy metal ratios.
   ii) Incorporate findings of task 1)(a)(i).
   iii) Estimate mass of benchmark chemicals using the average surface concentrations and net gain or loss of solids.
   iv) Map the ratio of benchmark chemicals to cesium-137 along the Lower Passaic River to identify sources.
   v) Examine variations in the ratio of total DDT/2,3,7,8-TCDD in previously determined erosional and depositional environments to evaluate the fate and transport of total DDT and 2,3,7,8-TCDD.
   vi) Compare benchmark metal concentrations to one another to identify those that are inversely or directly related – draw inferences regarding the fate and transport of the metals compared.

b) What ratios are characteristic of a given waterbody that can be used to fingerprint contaminant transport?
   i) Incorporate findings of task 3)(a)(i).
   ii) Use principal component analysis of PAHs and PCBs to attempt to identify source fingerprints; and examine specific ratios across the Lower Passaic River and into adjacent waterbodies to evaluate fate and transport.

c) What is the history of contamination for each benchmark chemical?

i) Building on the bathymetric and radionuclide analyses previously conducted, examine cores from depositional areas to determine chronology and loading of additional benchmark chemicals.

Deliverables: At the end of this analysis, a technical document containing plots and maps of contaminant concentration in the various media, statistical summaries, and discussion of analysis findings will be produced by the team, QC Documentation Checklist.

7.5.b – Draft Round 1 Data Gap/Data Analysis Report/Supplemental WP

In the March 3, 2005 proposal, it was intended that WE 7.5b address both reporting and interpretation of data from the 2005 field investigations and the preparation of a Supplemental WP to identify sampling proposed for the 2006 field season (*e.g.*, additional and data gap low resolution coring locations). [In comparison, the Project Plan Updates (refer to WAD 05 WE 1.8c in the March 3, 2005 proposal) are intended to address "mid-stream" corrections required during the field work to the FSP and/or SOPs for the planned dynamic/adaptive approach.] In the current proposal, effort is added to WE 7.5b to interpret WRDA data from the 2005 geophysical investigation.

MPI: 145 hours. Malcolm Pirnie will generate a Geophysical Survey Memo to include the data collected during the field investigation. The Memo will include:

- A brief description of the detailed field procedures employed by the geophysical surveyor;
- Processed geophysical data maps;
- Core logs;
- Summaries of the geotechnical laboratory data;
- Planimetric maps showing sediment texture types;
- Cross-sections and profiles showing geologic units;
- Manifests for IDW disposal;
- A brief narrative describing the sediment surface texture and subsurface geology.
- Prepare and interpret Maps/GIS layers for public presentation.

Deliverables: Geophysical survey memo; QC Checklist.

Attachment 1
Lower Passaic River Restoration Project - Task Order 0011 - Modification No. 07
Budget Chronology through ATP 10 Request Dated August 15, 2005

Budget Summary - Work Order Breakout

WAD	WO	TASK DESCRIPTION	Planned Year of Expenditure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
									Authorizations to Proceed (ATPs) and Work Variance Notifications (WVNs)											
				Original Negotiated Budget (renegotiated values)	Budget Negotiated in November and December 2003 and January 2004[1]	Budget Negotiated in July 2004	Budget Negotiated in Jan-Mar 2005	Budget Proposed in August 2005	ATP 1 (Approved 03/11/2003)	ATP 2/WVN 1 (Approved 09/10/2003)	ATP 3/WVN 2 (Approved 11/06/2003)	ATP 4/WVN 3 (Approved 12/01/2003)	ATP 5/WVN 4 (Approved 02/04/2004)	ATP 6/WVN 5 (Approved 04/29/2004)	ATP 7/WVN 6 (Approved 05/17/2004)	ATP 8/WVN 7 (Approved 09/30/2004)	ATP 9/WVN 8 (Approved 03/31/2005)	Requested Authorization	ATP 10/WVN 9	
03		**Remedial Investigation/Feasibility Study Services**																		
	1	**Project Administration/Reporting**																		
		1a. Project Mgr./Officer/Tech Director (Year 2)	2003	$21,279	$0	$0	$0	$0	$10,381	$10,381	$21,279	$21,279	$21,279	$21,279	$21,279	$21,279	$30,972	$0	$30,972	
		1b. Technical Support	2003	$10,399	$0	$0	$0	$0	$0	$10,399	$10,399	$10,399	$10,399	$10,399	$10,399	$10,399	$15,070	$0	$15,070	
		WO 01 Subtotal		$31,678	$0	$0	$0	$0	$10,381	$20,780	$31,678	$31,678	$31,678	$31,678	$31,678	$31,678	$46,042	$0	$46,042	
	2	**Meetings**																		
		2a. Meeting Prep./Attendance/Minutes (Year 2)	2003	$9,106	$0	$0	$0	$0	$6,914	$9,106	$9,106	$9,106	$9,106	$9,106	$9,106	$9,106	$9,106	$0	$9,106	
		WO 02 Subtotal		$9,106	$0	$0	$0	$0	$6,914	$9,106	$9,106	$9,106	$9,106	$9,106	$9,106	$9,106	$9,106	$0	$9,106	
	3	**Pre-Expansion Activity Plan and Schedule**																		
		3a. Amendment No. 1	2003	$9,336	$0	$0	$0	$0	$9,336	$9,336	$9,336	$9,336	$9,336	$9,336	$9,336	$9,336	$9,849	$0	$9,849	
		3b. QCP Amendment No. 1	2003	$2,224	$0	$0	$0	$0	$2,224	$2,224	$2,224	$2,224	$2,224	$2,224	$2,224	$2,224	$3,071	$0	$3,071	
		WO 03 Subtotal		$11,560	$0	$0	$0	$0	$11,560	$11,560	$11,560	$11,560	$11,560	$11,560	$11,560	$11,560	$12,920	$0	$12,920	
	4	**Populate and QC Database**																		
		4.1 Develop Data Scheme																		
		4.1a Create Database Structure and Coordination	2003	$0	$0	$0	$0	$0	$30,715	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		4.1b Establish Data Quality Scheme	2003	$8,738	$0	$0	$0	$0	$8,738	$8,738	$8,738	$8,738	$8,738	$8,738	$8,738	$8,738	$7,826	$0	$7,826	
		4.1c Determine Relevance of Each Report	2003	$9,300	$0	$0	$0	$0	$9,300	$9,300	$9,300	$9,300	$9,300	$9,300	$9,300	$9,300	$7,589	$0	$7,589	
		Develop Data Scheme Subtotal		$18,038	$0	$0	$0	$0	$48,753	$18,038	$18,038	$18,038	$18,038	$18,038	$18,038	$18,038	$15,415	$0	$15,415	
		4.2 Develop Analytical Database																		
		4.2a Data Entry	2003	$6,532	$0	$0	$0	$0	$6,532	$6,532	$6,532	$6,532	$6,532	$6,532	$6,532	$6,532	$6,532	-$1,082	$5,450	Remaining funds to address Minish Park Upload.
		4.2b Electronic Data Upload	2003	$29,676	$0	$0	$0	$0	$31,833	$29,676	$29,676	$29,676	$29,676	$29,676	$29,676	$29,676	$29,676	$82	$29,758	From WAD 03, WE 4.2a
		4.2c Quality Assurance	2003	$599	$0	$0	$0	$0	$599	$599	$599	$599	$599	$599	$599	$599	$599	$0	$599	
		4.2d Documentation of Approach	2003	$3,009	$0	$0	$0	$0	$3,009	$3,009	$3,009	$3,009	$3,009	$3,009	$3,009	$3,009	$3,009	$0	$3,009	
		4.2e Management and Oversight	2003	$0	$0	$0	$0	$0	$17,103	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		4.2f Evaluation and Documentation of Historical Data	2003	$7,315	$0	$0	$0	$0	$0	$0	$7,315	$7,315	$7,315	$7,315	$7,315	$7,315	$9,300	$0	$9,300	
		Develop Analytical Database Subtotal		$47,130	$0	$0	$0	$0	$59,075	$39,816	$47,130	$47,131	$47,131	$47,131	$47,131	$47,131	$49,116	-$1,000	$48,116	
		WO 04 Subtotal		$65,168	$0	$0	$0	$0	$107,828	$57,854	$65,168	$65,169	$65,169	$65,169	$65,169	$65,169	$64,531	-$1,000	$63,531	
	5	**Web Site and GIS System**																		
		5a. Management Reports (Year 2)	2003	$7,958	$0	$0	$0	$0	$11,523	$7,958	$7,958	$7,958	$7,958	$7,958	$7,958	$7,958	$5,818	$0	$5,818	
		5b. Ongoing Support (Year 2	2003	$16,557	$0	$0	$0	$0	$16,557	$16,557	$16,557	$16,557	$16,557	$16,557	$16,557	$16,557	$17,426	$0	$17,426	
		5c. Project (Task) Management (Year 2)	2003	$27,093	$0	$0	$0	$0	$27,093	$27,093	$27,093	$27,093	$27,093	$27,093	$27,093	$27,093	$20,033	$0	$20,033	
		5d. Create Database Design and Documentation (formerly Integration with HEP/CARP)	2003	$50,880	$0	$0	$0	$0	$90,355	$50,880	$50,880	$50,880	$50,880	$50,880	$50,880	$50,880	$36,972	$5,350	$42,322	From WAD 04, 3.1a
		5e. Laboratory Upload	2004	$10,330	$0	$0	$0	$0	$0	$10,330	$0	$0	$0	$0	$0	$10,330	$10,330	-$10,330	$0	To WAD 6 WO 3.2
		5f. Laboratory Validation	2004	$10,965	$0	$0	$0	$0	$0	$10,965	$3,082	$3,082	$3,082	$3,082	$3,082	$10,963	$7,881	-$7,881	$0	To WAD 6 WO 3.2
		5g. Communication	2003	$10,252	$0	$0	$0	$0	$0	$10,252	$10,252	$10,252	$10,252	$10,252	$10,252	$10,252	$11,066	$1,236	$12,302	From WAD 03, WE 4.2a and WAD 04, WE 3.1a
		5h. QA/QC	2003	$11,840	$0	$0	$0	$0	$0	$11,840	$11,840	$11,840	$11,840	$11,840	$11,840	$11,840	$241	$0	$241	
		5i. Technical Task Management	2003	$19,599	$0	$0	$0	$0	$0	$19,599	$19,599	$19,599	$19,599	$19,599	$19,599	$19,599	$15,487	$0	$15,487	
		5j. Database Maintenance	2004	$16,743	$0	$0	$0	$0	$0	$16,743	$16,743	$16,743	$16,743	$16,743	$16,743	$16,743	$2,103	$0	$2,103	
		WO 05 Subtotal		$182,217	$0	$0	$0	$0	$145,528	$182,217	$164,004	$164,004	$164,004	$164,004	$164,004	$182,215	$127,357	-$11,625	$115,732	
	6	**Establish Technical Expert Team**	2003	$24,733	$0	$0	$0	$0	$24,733	$24,733	$24,733	$24,733	$24,733	$24,733	$24,733	$24,733	$25,409	$0	$25,409	
		WO 06 Subtotal		$24,733	$0	$0	$0	$0	$24,733	$24,733	$24,733	$24,733	$24,733	$24,733	$24,733	$24,733	$25,409	$0	$25,409	
		WAD 03 Subtotal		$324,462	$0	$0	$0	$0	$306,944	$306,250	$306,249	$306,250	$306,250	$306,250	$306,250	$324,461	$285,365	-$12,625	$272,740	
		Total WAD 03		$324,462	$0	$0	$0	$0	$306,944	$306,250	$306,249	$306,250	$306,250	$306,250	$306,250	$324,461	$285,365	-$12,625	$272,740	
4		**Project Management and Community Relations**																		
	1	**Project Management and Administration**																		
		1.1 Project Management (2003)	2003	$0	$13,793	$0	$0	$0	$0	$0	$0	$13,793	$13,793	$13,793	$13,793	$13,793	$13,793	$0	$13,793	
		1.1 Project Management (2004)	2004	$0	$62,355	$0	$10,280	$0	$0	$0	$0	$15,589	$15,589	$31,178	$31,178	$62,355	$72,635	$0	$72,635	
		1.1 Project Management (2005)	2005	$0	$0	$0	$223,525	$0	$0	$0	$0	$0	$0	$0	$0	$0	$55,881	$111,762	$167,643	
		Project Management Subtotal		$0	$76,148	$0	$233,805	$0	$0	$0	$0	$29,382	$29,382	$44,971	$44,971	$76,148	$142,309	$111,762	$254,071	
		1.2 Project Support Documentation and Admin. (2003)	2003	$0	$18,135	$0	$0	$0	$0	$0	$0	$18,135	$18,135	$18,135	$18,135	$18,135	$18,135	$0	$18,135	
		1.2 Project Support Documentation and Admin. (2004)	2004	$0	$57,423	$0	$0	$0	$0	$0	$0	$14,356	$14,356	$28,712	$28,712	$57,423	$60,976	$0	$60,976	
		1.2 Project Support Documentation and Admin. (2005)	2005	$0	$0	$0	$113,468	$7,373	$0	$0	$0	$0	$0	$0	$0	$0	$28,367	$60,821	$89,188	60821 $92,474
		EV & Progress Reports; Billing/Clerical Subtotal		$0	$75,558	$0	$113,468	$7,373	$0	$0	$0	$32,491	$32,491	$46,847	$46,847	$75,558	$107,478	$60,821	$168,299	
		Subcontract Administration																		
		1.3a Laboratories (2004)	2004	$0	$52,898	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$52,898	$52,898	$0	$52,898	
		1.3a Laboratories (2005)	2005	$0	$0	$0	$8,335	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,668	$1,667	$8,335	
		1.3b Field Sampling Support (2004)	2004	$0	$41,359	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$41,359	$41,359	$0	$41,359	
		1.3c Professional Subcontractors (2003)	2003	$0	$25,648	$0	$0	$0	$0	$0	$0	$25,648	$25,648	$25,648	$25,648	$25,648	$25,648	$0	$25,648	
		1.3c Professional Subcontractors (2004)	2004	$0	$28,062	$0	$0	$0	$0	$0	$0	$7,016	$7,016	$7,016	$7,016	$28,062	$28,062	$0	$28,062	
		1.3c Professional Subcontractors (2005)	2005	$0	$0	$0	$47,743	$0	$0	$0	$0	$0	$0	$0	$0	$0	$23,872	$11,936	$35,808	
		1.3d Radionuclides and POC Labs - Summer/Fall 2004	2004	$0	$0	$5,639	$0	$0	$0	$0	$0	$0	$0	$0	$0	$5,639	$5,639	$0	$5,639	
		1.3e Field Sampling Support - Summer/Fall 2004	2004	$0	$0	$4,806	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,806	$4,806	$0	$4,806	
		Subcontract Administration Subtotal		$0	$147,967	$10,445	$56,078	$0	$0	$0	$0	$32,664	$32,664	$32,664	$32,664	$158,412	$188,952	$13,603	$202,555	
		1.4 Project Communications (2003)	2003	$0	$21,014	$0	$0	$0	$0	$0	$0	$21,014	$21,014	$21,014	$21,014	$21,014	$21,014	$0	$21,014	
		1.4 Project Communications (2004)	2004	$0	$88,555	$0	$0	$0	$0	$0	$0	$22,139	$22,139	$44,278	$44,278	$88,555	$103,747	$0	$103,747	
		1.4 Project Communications (2005)	2005	$0	$0	$0	$284,179	$72,345	$0	$0	$0	$0	$0	$0	$0	$0	$56,836	$242,853	$299,689	
		Teleconferences Subtotal		$0	$109,569	$0	$284,179	$72,345	$0	$0	$0	$43,153	$43,153	$65,292	$65,292	$109,569	$181,597	$242,853	$424,450	
		WO 01 Subtotal		$0	$409,242	$10,445	$687,530	$79,718	$0	$0	$0	$137,690	$137,690	$189,773	$189,773	$419,687	$620,336	$429,039	$1,049,375	
	2	**Community Relations**																		
		Communication																		
		2.1a Public Meeting Support (graphics/attendance) (2004)	2004	$0	$24,341	$0	$0	$0	$0	$0	$0	$6,085	$6,085	$6,085	$0	$24,341	$24,341	$0	$24,341	
		2.1b Fact Sheets (topic-specific) (2004)	2004	$0	$24,710	$0	$0	$0	$0	$0	$0	$6,178	$6,178	$6,178	$0	$24,710	$24,710	$0	$24,710	
		2.1c Ongoing Communications Support (2005)	2005	$0	$0	$0	$39,744	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,936	$29,808	$39,744	
		Communication Subtotal		$0	$49,051	$0	$39,744	$0	$0	$0	$0	$12,263	$12,263	$12,263	$0	$49,051	$58,987	$29,808	$88,795	
		Community Involvement Plan																		
		2.2a Stakeholder/Community Interviews (2004)	2004	$0	$26,537	$0	$0	$0	$0	$0	$0	$13,269	$13,269	$13,269	$5,532	$26,537	$26,537	-$10,304	$16,233	
		2.2b Draft Community Involvement Plan (2004)	2004	$0	$14,354	$0	$0	$29,627	$0	$0	$0	$0	$0	$0	$0	$14,354	$14,354	$39,931	$54,285	$10304 from WE 2.2a, above.
		2.2c RTC/Final CIP (2004)	2004	$0	$8,628	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,628	$8,628	
		Community Involvement Plan Subtotal		$0	$49,519	$0	$0	$29,627	$0	$0	$0	$13,269	$13,269	$13,269	$5,532	$40,891	$40,891	$38,255	$79,146	
		WO 02 Subtotal		$0	$98,570	$0	$39,744	$29,627	$0	$0	$0	$25,531	$25,532	$25,532	$5,532	$89,942	$99,878	$68,063	$167,941	
	3	Technical Support																		
		3.1a MPI Technical Support (2004)	2004	$0	$28,037	$0	$6,282	$0	$0	$0	$0	$14,019	$14,019	$9,252	$9,252	$28,037	$43,096	$0	$43,096	
		3.2 Subcontractor Technical Support (2004)	2004	$0	$15,000	$7,500	$0	$0	$0	$0	$0	$7,500	$7,500	$7,500	$14,500	$22,500	$22,500	$0	$22,500	
		3.3 Technical Support (2005)	2005	$0	$0	$0	$80,140	$55,383	$0	$0	$0	$0	$0	$0	$0	$0	$16,028	$107,429	$123,457	WVN $5,350 for WAD 03 WE 5d, $236 for WAD 03 WE 5g, $1,469 for WAD 05 WE 1.2b;
		WO 03 Subtotal		$0	$43,037	$7,500	$86,422	$55,383	$0	$0	$0	$21,519	$21,519	$16,752	$23,752	$50,537	$81,624	$107,429	$189,053	(cont'd from above) $4,482 for WAD 05 WO 1.4d, 1.4e1 and 1.4e2; and $529 for WAD 05 WO 1.6b
		WAD 4 Subtotal		$0	$550,849	$17,945	$813,696	$164,728	$0	$0	$0	$184,740	$184,741	$232,057	$219,056	$560,166	$801,838	$604,531	$1,406,369	
		Total WAD 4		$0	$550,849	$17,945	$813,696	$164,728	$0	$0	$0	$184,740	$184,741	$232,057	$219,056	$560,166	$801,838	$604,531	$1,406,369	
5		**Technical Studies & Investigations**																		
	1	**RI/FS Work Plan Preparation**																		
		1.1 Agency Coordination Scoping Meeting (2003)	2003	$0	$17,202	$0	$0	$0	$0	$0	$0	$17,202	$17,202	$17,202	$17,202	$17,202	$14,911	$0	$14,911	
		1.2a Evaluation and Documentation of Historical Data	2003	$0	$35,265	$0	$5,565	$0	$0	$0	$0	$35,265	$35,265	$35,265	$35,265	$35,265	$40,830	$0	$40,830	
		1.2b Evaluation and Documentation of Historical Data	2004	$0	$0	$68,763	$0	$0	$0	$0	$0	$0	$0	$0	$0	$68,763	$68,763	$8,833	$77,596	Take from WAD 05, 1.3 and 1.4a & WAD 04, 3.1a
		1.3 Identify Draft DQOs/ARARs/PRGs (2003)	2003	$0	$46,994	$0	$0	$0	$0	$0	$0	$46,994	$46,994	$46,994	$46,994	$46,994	$46,717	-$5,340	$41,377	Use for 1.2b
		RI/FS Work Plan Subtotal		$0	$99,461	$68,763	$5,565	$0	$0	$0	$0	$99,461	$99,461	$99,461	$99,461	$168,224	$171,221	$3,493	$174,714	
		Modeling Plan																		
		1.4a Prelim. Draft/Outline Modeling Plan/Discussion & RTC (2003)	2003	$0	$68,527	$0	$0	$0	$0	$0	$0	$68,527	$68,527	$68,527	$68,527	$68,527	$68,527	-$2,024	$66,503	Use for 1.2b
		1.4b Draft Final Modeling Plan (2004)	2004	$0	$21,855	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$21,855	$21,855	$0	$21,855	
		1.4b1 Draft Modeling Plan - TAC Review (In-Depth)	2005	$0	$0	$0	$14,900	$0	$0	$0	$0	$0	$0	$0	$0	$0	$14,900	$0	$14,900	
		1.4b2 Response to Additional Comments (2005)	2005	$0	$0	$0	$12,168	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,168	$0	$12,168	
		1.4c RTC/Final Modeling Plan	2004	$0	$5,603	$0	$0	$25,858	$0	$0	$0	$0	$0	$0	$0	$5,603	$5,603	$25,858	$31,461	
		1.4d Input to DQOs	2003	$0	$6,657	$0	$0	$0	$0	$0	$0	$6,657	$6,657	$6,657	$6,657	$6,657	$6,934	$3,031	$9,965	Take from WAD 04, WO 3.3
		1.4e1 Data Gaps/Studies Analysis	2003	$0	$22,176	$0	$0	$0	$0	$0	$0	$16,632	$16,632	$22,176	$10,176	$22,176	$22,176	$852	$23,028	Take from WAD 04, WO 3.3
		1.4e2 Consultation with Expert Panel - Sed Transport Studies	2003	$0	$2,522	$0	$0	$0	$0	$0	$0	$2,522	$2,522	$2,522	$2,522	$2,522	$2,522	$599	$3,121	Take from WAD 04, WO 3.3
		1.4e3 Contribution to Plan Layout/Design	2004	$0	$21,594	$0	$0	$0	$0	$0	$0	$16,196	$16,196	$10,797	$10,797	$21,594	$21,594	$0	$21,594	
		1.4e4 Input to Hydrodynamic Sampling Plan (2004)	2004	$0	$0	$0	$15,125	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,125	$0	$15,125	
		Modeling Plan Subtotal		$0	$148,934	$0	$42,193	$25,858	$0	$0	$0	$110,534	$110,534	$110,679	$98,679	$148,934	$191,404	$28,316	$219,720	
		Work Plan (WP) and Field Sampling Plan (FSP)																		
		1.5a Preliminary Draft/Outline WP/FSP/RTC (2003)	2003	$0	$44,188	$0	$0	$0	$0	$0	$0	$44,188	$44,188	$44,188	$44,188	$44,188	$44,188	$0	$44,188	
		1.5a Pre-Draft WP/FSP Volume 1 (2004)	2004	$0	$0	$0	$9,504	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,504	$0	$9,504	
		1.5b Draft Final WP/FSP (2004)	2004	$0	$70,461	$0	$0	$0	$0	$0	$0	$0	$0	$10,569	$50,569	$70,461	$70,461	$0	$70,461	
		1.5b Draft Final WP/FSP Volume 1 (2004)	2004	$0	$0	$0	$18,369	$80,929	$0	$0	$0	$0	$0	$0	$0	$0	$18,369	$80,929	$99,298	
		1.5c RTC Final WP/FSP Volume 1 (2004)	2004	$0	$25,258	$0	$0	$75,091	$0	$0	$0	$0	$0	$0	$0	$25,258	$25,258	$75,091	$100,349	
		1.5d FSP Volume 2 (Biota): Pre-Draft (2005)	2005	$0	$0	$0	$52,958	$0	$0	$0	$0	$0	$0	$0	$0	$0	$21,183	$31,775	$52,958	
		1.5e FSP Volume 2 (Biota): Draft (2005)	2005	$0	$0	$0	$79,998	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$79,998	$79,998	
		1.5f FSP Volume 2 (Biota): Final (2006)	2006	$0	$0	$0	$27,079	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		1.5g Revisions to FSP 3 Geophysical Program (2005)		$0	$0	$0	$0	$3,489	$0	$0	$0	$0	$0	$0	$0	$0	$0	$3,489	$3,489	
		Work Plan (WP) and Field Sampling Plan (FSP) Subtotal		$0	$139,907	$0	$187,908	$159,509	$0	$0	$0	$44,188	$44,188	$54,757	$94,757	$139,907	$188,963	$271,282	$460,245	
		Quality Assurance Project Plan (QAPP)																		
		1.6a Preliminary Draft/Outline QAPP/RTC (2003)	2003	$0	$22,567	$0	$0	$23,710	$0	$0	$0	$22,567	$22,567	$22,567	$22,567	$22,567	$22,567	$23,710	$46,277	New Proposal
		1.6b Draft Final QAPP/Final DQOs (2004)	2004	$0	$20,885	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$20,885	$20,885	$8,146	$29,031	Take from WAD 05 WO 1.7a & 1.7b & WAD 04 WO 3.3
		1.6b Draft QAPP (2005)	2005	$0	$0	$0	$8,200	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,200	$0	$8,200	
		1.6c RTC/Final QAPP (2004)	2004	$0	$11,046	$0	$0	$20,000	$0	$0	$0	$0	$0	$0	$0	$11,046	$11,046	$20,000	$31,046	
		Quality Assurance Project Plan (QAPP) Subtotal		$0	$54,498	$0	$8,200	$43,710	$0	$0	$0	$22,567	$22,567	$22,567	$22,567	$54,498	$62,698	$51,856	$114,554	
		Health and Safety Plan (HASP)																		
		1.7a Preliminary Draft/Outline HASP/RTC (2003)	2003	$0	$4,550	$0	$0	$0	$0	$0	$0	$4,550	$4,550	$4,550	$4,550	$4,550	$9,828	-$4,550	$5,278	
		1.7b Draft Final HASP (2004)	2004	$0	$12,711	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,711	$7,433	-$3,067	$4,366	
		1.7c RTC/Final HASP (2004)	2004	$0	$12,711	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,711	$12,711	$0	$12,711	
		Health and Safety Plan (HASP) Subtotal		$0	$29,972	$0	$0	$0	$0	$0	$0	$4,550	$4,550	$4,550	$4,550	$29,972	$29,972	-$7,617	$22,355	
		RI/FS Workplans																	$0	
		1.8a Meeting with PRPs (2004)	2004	$0	$15,647	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	This task will not be authorized
		1.8b RTC and Dissemination of Public Information (2004)	2004	$0	$35,316	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$35,316	$35,316	
		1.8c Project Plan Updates (2005)	2005	$0	$0	$0	$31,099	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		RI/FS Workplans Subtotal		$0	$50,963	$0	$31,099	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$35,316	$35,316	
		WO 01-Subtotal		$0	$523,735	$68,763	$274,965	$229,077	$0	$0	$0	$281,300	$281,300	$292,014	$320,014	$541,535	$644,258	$382,646	$1,026,904	
	2	**Preliminary Risk Assessment**																		
		2.1a Preliminary Risk Assessment CoC and Pathway Analyses (2004)	2004	$0	$47,226	$0	$0	$0	$0	$0	$0	$9,445	$9,445	$47,226	$47,226	$47,226	$47,226	$0	$47,226	
		2.1b Pathway Analysis RTC	2005	$0	$0	$4,966	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,966	$4,966	$0	$4,966	
		Preliminary Risk Assessment Subtotal		$0	$47,226	$4,966	$0	$0	$0	$0	$0	$9,445	$9,445	$47,226	$47,226	$52,192	$52,192	$0	$52,192	
		Additional Preliminary Risk Analyses (2005)																	$0	
		2.2a Finalize Pathways Analysis Report	2005	$0	$0	$0	$25,882	$0	$0	$0	$0	$0	$0	$0	$0	$0	$25,882	$0	$25,882	
		2.2b Conceptual Site Model/Problem Formulation	2005	$0	$0	$0	$121,953	$0	$0	$0	$0	$0	$0	$0	$0	$0	$91,465	$30,488	$121,953	
		2.2c Develop Weight of Evidence approach for ecological risk assessment	2005	$0	$0	$0	$27,437	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$27,437	$27,437	
		Additional Preliminary Risk Analyses Subtotal		$0	$0	$0	$175,272	$0	$0	$0	$0	$0	$0	$0	$0	$0	$117,347	$57,925	$175,272	
		WO 02-Subtotal		$0	$47,226	$4,966	$175,272	$0	$0	$0	$0	$9,445	$9,445	$47,226	$47,226	$52,192	$169,539	$57,925	$227,464	
	3	**Work Plan Implementation for 2004-2005 Sampling Event**																		
		Investigation Support																		
		3.1a Equipment Management, Mobilization, Demobilization	2005	$0	$0	$36,317	$0	$0	$0	$0	$0	$0	$0	$0	$0	$36,317	$36,317	$0	$36,317	
		3.1b Health and Safety Activities	2005	$0	$0	$4,078	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,078	$4,078	$0	$4,078	
		Investigation Support Subtotal		$0	$0	$40,395	$0	$0	$0	$0	$0	$0	$0	$0	$0	$40,395	$40,395	$0	$40,395	
		Field Investigation																		
		3.2a Technical Coordination and Field Support	2005	$0	$0	$40,207	$0	$0	$0	$0	$0	$0	$0	$0	$0	$40,207	$40,207	$0	$40,207	
		3.2b Sample Collection and Sample Management	2005	$0	$0	$118,198	$0	$0	$0	$0	$0	$0	$0	$0	$0	$118,198	$118,198	$0	$118,198	
		Field Investigation Subtotal		$0	$0	$158,405	$0	$0	$0	$0	$0	$0	$0	$0	$0	$158,405	$158,405	$0	$158,405	
		Field Investigation and Travel Expenses																		
		3.3a Field Investigation Expenses	2005	$0	$0	$185,205	$664,853	$0	$0	$0	$0	$0	$0	$0	$0	$185,205	$318,176	$50,000	$368,176	
		3.3b Travel Expenses	2005	$0	$0	$4,092	$15,616	$0	$0	$0	$0	$0	$0	$0	$0	$4,092	$7,215	$12,493	$19,708	
		3.3c Coring Subcontracts (2005)	2005	$0	$0	$0	$265,400	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$139,619	$139,619	
		Field Investigation and Travel Expense Subtotal		$0	$0	$189,297	$945,869	$0	$0	$0	$0	$0	$0	$0	$0	$189,297	$325,391	$202,112	$527,503	
		Data Management and Support																		
		3.4a Field Data QC Review (2005)	2005	$0	$0	$0	$8,331	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$8,331	$8,331	
		3.4b QA Coordinator	2005	$0	$0	$0	$68,957	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$22,985	$22,985	
		Data Management and Support Subtotal		$0	$0	$0	$77,288	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$31,316	$31,316	
		WO 03-Subtotal		$0	$0	$388,097	$1,023,157	$0	$0	$0	$0	$0	$0	$0	$0	$388,097	$524,191	$233,428	$757,619	
	4	**Implementation of FSP Activities (2005-2006)**																		
		Field Investigation and Travel Expenses																		
		4.1a Logistics and Mobilization	2005	$0	$0	$0	$45,273	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,109	$27,164	$45,273	Move excess charges to 3.3a; complete facility setup on 3.3a
		4.1b Equipment Management	2005	$0	$0	$0	$21,158	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$15,869	$15,869	
		4.1c Health and Safety Administration	2005	$0	$0	$0	$8,806	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$4,403	$4,403	
		4.1d Sample Collection and Core Processing	2005	$0	$0	$0	$3,153,787	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$1,159,617	$1,159,617	
		4.1e CSO Sampling Oversight	2005	$0	$0	$0	$4,636	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Field Investigation and Travel Expenses Subtotal		$0	$0	$0	$3,233,660	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,109	$1,207,053	$1,225,162	
		Field Audits																		
		4.2 Technical System and Health and Safety Audits (2005)	2005	$0	$0	$0	$18,705	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,353	$9,353	
		Field Audits Subtotal		$0	$0	$0	$18,705	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$9,353	$9,353	
		WO 04-Subtotal		$0	$0	$0	$3,252,365	$0	$0	$0	$0	$0	$0	$0	$0	$0	$18,109	$1,216,406	$1,234,515	
	6	**Model Development, Calibration, and Application (2005-2007)**																		
		Hydrodynamic Transport Model (2005)																		
		6.1a Technical Memorandum (2005)	2005	$0	$0	$0	$621,411	$0	$0	$0	$0	$0	$0	$0	$0	$0	$62,141	$292,000	$354,141	
		Hydrodynamic Transport Model Subtotal		$0	$0	$0	$621,411	$0	$0	$0	$0	$0	$0	$0	$0	$0	$62,141	$292,000	$354,141	
		Sediment Transport Model (2005)																		
		6.2a Technical Memorandum (2005)	2005	$0	$0	$0	$748,654	$0	$0	$0	$0	$0	$0	$0	$0	$0	$74,865	$244,000	$318,865	
		Sediment Transport Model Subtotal			$0	$0	$748,654	$0	$0	$0	$0	$0	$0	$0	$0	$0	$74,865	$244,000	$318,865	
		Fate & Transport Model (2005)																		
		6.3a Technical Memorandum (2005)	2005	$0	$0	$0	$101,880	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	Organic Carbon SubModel in 2005
		Fate & Transport Model Subtotal			$0	$0	$101,880	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Food Chain Model (2005)																		
		6.4a Technical Memorandum (2005)	2005	$0	$0	$0	$33,730	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Food Chain Model Subtotal			$0	$0	$33,730	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Model Calibration Report (2006-2007)																		
		6.5a Technical Memorandum (2006-2007)	2006	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Model Calibration Report Subtotal			$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		WO 06-Subtotal		$0	$0	$0	$1,505,675	$0	$0	$0	$0	$0	$0	$0	$0	$0	$137,006	$536,000	$673,006	
		WAD 5 Subtotal		$0	$570,961	$461,826	$6,231,434	$229,077	$0	$0	$0	$290,745	$290,745	$339,240	$367,240	$981,824	$1,493,103	$2,426,405	$3,919,508	
		Total WAD 5		$0	$570,961	$461,826	$6,231,434	$229,077	$0	$0	$0	$290,745	$290,745	$339,240	$367,240	$981,824	$1,493,103	$2,426,405	$3,919,508	
6		**Data Management and Presentation**																		
	1	**Map Guide (2003)**																		
		1.1 Map Guide	2003	$0	$50,204	$0	$0	$0	$0	$0	$0	$0	$50,204	$50,204	$50,204	$50,204	$49,388	$0	$49,388	
		WO 01 Subtotal		$0	$50,204	$0	$0	$0	$0	$0	$0	$0	$50,204	$50,204	$50,204	$50,204	$49,388	$0	$49,388	
	2	**Public Website**																		
		2.1 Maintenance and Support (2004)	2004-2005	$0	$24,914	$0	$0	$36,881	$0	$0	$0	$0	$0	$4,983	$4,983	$12,457	$12,457	$36,881	$49,338	
		WO 02 Subtotal		$0	$24,914	$0	$0	$36,881	$0	$0	$0	$0	$0	$4,983	$4,983	$12,457	$12,457	$36,881	$49,338	
	3	**Private Website**																		
		3.1 Field Application Module Development (e.g., COC, add'l comments, corrections) (2004)	2004	$0	$31,276	$0	$0	$0	$0	$0	$0	$0	$0	$7,819	$7,819	$31,276	$31,276	$10,179	$41,455	$0 change from WE 5.2; task charge error.
		3.2 Website Reports (field data views) (2004)	2004	$0	$27,000	$0	$0	$0	$0	$0	$0	$0	$8,910	$8,910	$8,910	$27,000	$27,000	$0	$27,000	
		3.2 Website Reports (field data views) (2005)	2005	$0	$0	$0	$18,212	$0	$0	$0	$0	$0	$0	$0	$0	$0	$21,294	$18,211	$39,505	Take from WAD 03 WO 5e & 5f
		3.3 Management Website Reports (2004)	2004	$0	$9,883	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,471	$2,471	$7,412	$9,883	
		3.4 Maintenance and Support (2004)	2004	$0	$47,322	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$40,224	$40,224	$0	$40,224	
		3.4a Export and Convert CARP Sed, Water, and Biota Data for PREmis (2005)	2005	$0	$0	$0	$13,448	$0	$0	$0	$0	$0	$0	$0	$0	$0	$13,448	$0	$13,448	
		WO 03 Subtotal		$0	$115,481	$0	$31,660	$0	$0	$0	$0	$0	$8,910	$16,729	$16,729	$100,970	$135,712	$35,802	$171,514	
	4	**Database (update for MEDD fields, etc.)**																		
		4.1 Create ERD	2005	$0	$24,843	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$12,422	$12,422	$12,422	24843	
		4.2 Respond to comments on ERD	2005	$0	$4,206	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,103	$2,103	$2,103	4206	
		4.3 Finalize ERD and create database (updated)	2005	$0	$5,203	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$2,602	$2,602	$2,602	5203	
		WO 04 Subtotal		$0	$34,252	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$17,126	$17,126	$17,126	$34,252	
	5	**Field Application**																		
		5.1 Scoping Workshop and Conference Calls (2004)	2004	$0	$31,623	$0	$0	$0	$0	$0	$0	$0	$6,325	$15,812	$8,222	$15,812	$15,812	$15,812	$31,624	
		5.2 Field Application Design Document	2003/2004	$0	$82,041	$0	$0	$0	$0	$0	$0	$0	$10,665	$16,408	$8,997	$41,021	$41,021	$30,842	$71,863	Move $10,179 to WE 3.1; $0 change
		5.3 Field Application Programming																	$0	
		5.3a Writing to Forms II Lite (2004)	2004	$0	$10,615	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$10,615	$10,615	$0	$10,615	
		5.3b Programming (assumes wireless works) (2004)	2004	$0	$80,423	$0	$0	$0	$0	$0	$0	$0	$0	$11,259	$11,259	$40,212	$40,212	$40,212	$80,424	
		5.4 QA/QC (check for bugs) (Map Guide, field application, website, and database)	2005	$0	$59,993	$0	$0	$0	$0	$0	$0	$0	$7,799	$14,998	$14,998	$29,997	$41,596	$29,996	$71,592	
		WO 05 Subtotal		$0	$264,695	$0	$0	$0	$0	$0	$0	$0	$24,789	$58,477	$43,477	$137,655	$149,254	$116,862	$266,116	
	6	**Technical Task Communication**																		
		6.1 Technical Task Communication	2005	$0	$33,859	$0	$0	$0	$0	$0	$0	$0	$4,402	$8,465	$8,465	$16,930	$16,930	$16,930	$33,860	
		WO 06 Subtotal		$0	$33,859	$0	$0	$0	$0	$0	$0	$0	$4,402	$8,465	$8,465	$16,930	$16,930	$16,930	$33,860	
	7	**Data Evaluation**																		
		7.1 Data Upload: 2004-2005 Hydrodynamic and Sed. Data	2005	$0	$0	$6,692	$0	$0	$0	$0	$0	$0	$0	$0	$0	$6,692	$6,692	$0	$6,692	
		7.2 Data Evaluation: 2004-2005 Hydrodynamic and Sed. Data	2005	$0	$0	$43,739	$0	$0	$0	$0	$0	$0	$0	$0	$0	$43,739	$43,739	$0	$43,739	
		Data Evaluation Subtotal		$0	$0	$50,431	$0	$0	$0	$0	$0	$0	$0	$0	$0	$50,431	$50,431	$0	$50,431	
		Data Analysis and Interpretation																		
		7.3 Preliminary Geochemical and Statistical Analysis (2005)	2005	$0	$0	$0	$96,033	$209,789	$0	$0	$0	$0	$0	$0	$0	$0	$96,033	$209,789	$305,822	
		7.4 Data Validation (2005)	2005	$0	$0	$0	$92,560	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$46,280	$46,280	
		Data Analysis and Interpretation Subtotal		$0	$0	$0	$188,593	$209,789	$0	$0	$0	$0	$0	$0	$0	$0	$96,033	$256,069	$352,102	
		Initial Review of Data from FSP Activities (2005)																		
		7.5a Evaluate Hydrodynamic/SW/Sediment Data (2005)	2005	$0	$0	$0	$128,746	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$32,187	$32,187	
		7.5b Draft Round 1 Data Gap/Data Evaluation Report/Supplemental WP (2005)	2005	$0	$0	$0	$42,854	$15,607	$0	$0	$0	$0	$0	$0	$0	$0	$0	$37,034	$37,034	Geophysical Survey Tech Memo
		7.5c Final Round 1 Data Gap/Data Evaluation Report/Supplemental WP (2005-2006)	2005	$0	$0	$0	$4,406	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Initial Review of Data from FSP Activities Subtotal		$0	$0	$0	$176,006	$15,607	$0	$0	$0	$0	$0	$0	$0	$0	$0	$69,221	$69,221	
		WO 07 Subtotal		$0	$0	$50,431	$364,599	$225,396	$0	$0	$0	$0	$0	$0	$0	$50,431	$146,464	$325,290	$471,754	
		WAD 6 Subtotal		$0	$523,405	$50,431	$396,259	$262,277	$0	$0	$0	$0	$88,305	$138,858	$123,858	$385,773	$527,331	$548,890	$1,076,221	
		Total WAD 6		$0	$523,405	$50,431	$396,259	$262,277	$0	$0	$0	$0	$88,305	$138,858	$123,858	$385,773	$527,331	$548,890	$1,076,221	
7	1	**Feasibility Study**																		
		Preliminary Feasibility Study	2005	$0	$0	$0	$63,872	$0	$0	$0	$0	$0	$0	$0	$0	$0	$25,549	$38,323	$63,872	
		Total WAD 7		$0	$0	$0	$63,872	$0	$0	$0	$0	$0	$0	$0	$0	$0	$25,549	$38,323	$63,872	
		WAD Totals (excluding fee)																		
		WAD 03		$324,462	$0	$0	$0	$0	$306,944	$306,249	$306,249	$306,250	$306,250	$306,250	$306,250	$324,461	$285,365	-$12,625	$272,740	
		WAD 04		$0	$550,849	$17,945	$813,696	$164,728	$0	$0	$0	$184,740	$184,741	$232,057	$219,056	$560,166	$801,838	$604,531	$1,406,369	
		WAD 05		$0	$570,961	$461,826	$6,231,434	$229,077	$0	$0	$0	$290,745	$290,745	$339,240	$367,240	$981,824	$1,493,103	$2,426,405	$3,919,508	
		WAD 06		$0	$523,405	$50,431	$396,259	$262,277	$0	$0	$0	$0	$88,305	$138,858	$123,858	$385,773	$527,331	$548,890	$1,076,221	
		WAD 07		$0	$0	$0	$63,872	$0	$0	$0	$0	$0	$0	$0	$0	$0	$25,549	$38,323	$63,872	
		Total WADs 3 through 7		$324,462	$1,645,215	$530,202	$7,505,261	$656,082	$306,944	$306,249	$306,249	$781,735	$870,041	$1,016,402	$1,016,402	$2,252,224	$3,133,186	$3,605,524	$6,738,710	
		WAD 8-Fee																		
		WAD 3 Fee Subtotal		$16,158	$0	$0	$0	$0	$13,903	$14,883	$14,883	$0	$14,883	$14,883	$14,883	$16,158	$0	$0	$0	
		WAD 3/WO 5a - 5c Fee Subtotal		$4,129	$0	$0	$0	$0	$4,414	$4,129	$4,129	$0	$4,129	$4,129	$4,129	$4,129	$0	$0	$0	
		WAD 4 Fee Subtotal		$0	$35,314	$1,045	$0	$0	$0	$0	$0	$11,773	$11,773	$14,715	$14,715	$35,813	$0	$0	$0	
		WAD 5 Fee Subtotal		$0	$30,787	$28,365	$0	$0	$0	$0	$0	$15,580	$15,580	$17,941	$17,941	$56,291	$0	$0	$0	
		WAD 6 Fee Subtotal		$0	$36,388	$2,868	$0	$0	$0	$0	$0	$0	$5,931	$9,470	$9,470	$26,092	$0	$0	$0	
		WAD 7 Fee Subtotal		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	
		Undistributed Fee		$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$183,802	$194,624	$378,426	
		Total WAD 8		$20,287	$102,489	$32,278	$386,090	$42,841	$18,317	$19,012	$19,012	$27,353	$52,296	$61,138	$61,138	$138,483	$183,802	$194,624	$378,426	
		Task Order Summary																		
		Labor , ODCs, and Travel		$324,462	$1,645,215	$530,202	$7,505,261	$656,082	$306,944	$306,249	$306,249	$475,485	$870,041	$1,016,402	$1,016,402	$2,252,224	$3,133,186	$3,605,524	$6,738,710	880961.8
		Subtotal		$324,462	$1,645,215	$530,202	$7,505,261	$656,082	$306,944	$306,249	$306,249	$475,485	$870,041	$1,016,402	$1,016,402	$2,252,224	$3,133,186	$3,605,524	$6,738,710	880961.8
		Fee (WAD 8)		$20,287	$102,489	$32,278	$386,090	$42,841	$18,317	$19,012	$19,012	$27,353	$52,296	$61,138	$61,138	$138,483	$183,802	$194,624	$378,426	45318.95169
		Total		$344,749	$1,747,704	$562,480	$7,891,351	$698,923	$325,261	$325,261	$325,261	$502,838	$922,337	$1,077,540	$1,077,540	$2,390,707	$3,316,988	$3,800,148	$7,117,136	926280.7517

Notes: 1. All WAD 03 tasks have a zero in this column since this WAD was negotiated prior to November and December 2003.

ESTIMATED COSTS FOR LOWER PASSAIC RIVER RESTORATION PROJECT TASK ORDER 0011, WADs 4 through 7: PHASE 2 STEP 4
MALCOLM PIRNIE, INC.
CONTRACT NO. DACW41-02-D-0003

TITLE: / TASK DESCRIPTION	Program Officer	Project Manager	Senior Project Engineer	Project Engineer	Engineer	Senior Project Scientist	Project Scientist	Scientist	Senior IT Specialist	Project IT Specialist	IT Specialist	Technician	Admin. Assistant	Total Labor Hours	Total Billable Labor
Contract Year 3 Rates (2004)	$233.59	$154.10	$135.15	$92.50	$69.95	$133.26	$84.62	$62.34	$136.51	$124.62	$84.47	$67.30	$56.97		
Contract Year 4 Rates (2005)	$243.52	$160.65	$140.90	$96.44	$72.93	$138.93	$88.22	$64.99	$142.32	$129.91	$88.07	$70.16	$59.39		
Contract Year 5 Rates (2006)	$252.29	$166.44	$145.97	$99.91	$75.55	$143.93	$91.40	$67.33	$147.44	$134.59	$91.24	$72.68	$61.53		
WAD / WO — Grade Level	C	A,B	6,A,B	4,5	1,2,3	6,A,B	4,5	1,2,3	6,A,B	4,5	1,2,3	2-6	1-6		
04 Project Management and Community Relations															
1 *Project Management and Community Relations*															
1.2 Project Support Documentation and Administration (2005)														0	$0
SUBTASK-SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0
1.4 Project Communications (2005)														0	$0
SUBTASK-SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0
SUBTOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0
2 *Community Relations*															
2.2 Community Involvement Plan															
2.2b Draft Community Involvement Plan (2005)		24				124							124	272	$28,447
SUBTASK-SUBTOTAL	0	24	0	0	0	124	0	0	0	0	0	0	124	272	$28,447
SUBTOTAL	0	24	0	0	0	124	0	0	0	0	0	0	124	272	$28,447
3 *Technical Support*															
3.3 Technical Support (2005)		50	75	75	75	75	75	75						500	$53,213
SUBTASK-SUBTOTAL	0	50	75	75	75	75	75	75	0	0	0	0	0	500	$53,213
SUBTOTAL	0	50	75	75	75	75	75	75	0	0	0	0	0	500	$53,213
TASK ORDER TOTAL WAD 04	0	74	75	75	75	199	75	75	0	0	0	0	124	772	$81,660
05 Technical Studies & Investigations															
1 *RI/FS Work Plan Preparation*															
1.4 Modeling Plan															
1.4c RTC/Final Modeling Plan (2005)		2		16		18								36	$4,365
SUBTASK-SUBTOTAL	0	2	0	16	0	18	0	0	0	0	0	0	0	36	$4,365
1.5 Work Plan (WP) and Field Sampling Plan (FSP)															
1.5b Draft Final WP/FSP Volume 1 (2005)	8	80	180	200		72	72							612	$72,711
1.5c RTC and Final WP/FSP Volume 1 (2005)		120	120	160		100	110							610	$72,144
1.5g Revisions to FSP 3 Geophysical Program (2005)			9			2	22							33	$3,345
SUBTASK-SUBTOTAL	8	200	309	360	0	174	204	0	0	0	0	0	0	1,255	$148,200
1.6 Quality Assurance Project Plan (QAPP)															
1.6a Preliminary Draft/Outline QAPP/RTC						10	240							250	$22,562
1.6c RTC/Final QAPP (2005)		4	16	40		40	78							178	$19,193
SUBTASK-SUBTOTAL	0	4	16	40	0	50	318	0	0	0	0	0	0	428	$41,755
SUBTOTAL	8	206	325	416	0	242	522	0	0	0	0	0	0	1,719	$194,320
TASK ORDER TOTAL WAD 05	8	206	325	416	0	242	522	0	0	0	0	0	0	1,719	$194,320
06 Data Management and Presentation															
2 *Public Website*															
2.1 Maintenance and Support (2005)				40		40			40	80	80	40		320	$35,352
SUBTASK-SUBTOTAL	0	0	0	40	0	40	0	0	40	80	80	40	0	320	$35,352
SUBTOTAL	0	0	0	40	0	40	0	0	40	80	80	40	0	320	$35,352
7 *Data Analysis and Interpretation*															
7.3 Additional Geochemical and Statistical Analysis (2005)		24	160	600	240	200	600	240					40	2,104	$200,458
SUBTASK-SUBTOTAL	0	24	160	600	240	200	600	240	0	0	0	0	40	2,104	$200,458
7.5 Initial Review of Data from FSP Activities (2005)															
7.5a Evaluate Hydrodynamic/SW/Sediment Data														0	$0
7.5b Draft Round 1 Data Gap/Data Eval Report/Supp WP - Geophysical Memo (2005)		4	10		80	51								145	$14,971
SUBTASK-SUBTOTAL	0	4	10	0	80	51	0	0	0	0	0	0	0	145	$14,971
SUBTOTAL	0	28	170	600	320	251	600	240	0	0	0	0	40	2,249	$215,429
TASK ORDER TOTAL WAD 06	0	28	170	640	320	291	600	240	40	80	80	40	40	2,569	$250,781
08 TASK ORDER TOTAL WAD 08 (FEE)															
TASK ORDER TOTAL WADs 04, 05, AND 06	8	308	570	1,131	395	732	1,197	315	40	80	80	40	164	5,060	$526,761

TASK DESCRIPTION	ODCs - Reproduction Surcharge	ODCs-Computer Surcharge	ODCs - Mail and Shipping	ODCs - Equipment and Supplies	Total Fee Bearing ODCs	Sub-contractor (HydroQual) Total Cost (Labor, ODCs, Fees,Travel)	Sub-contractor (HydroQual) Total Billable Labor and ODCs	MPI Fee on HydroQual	Sub-contractor fee (HydroQual)	Sub-contractor (Battelle) Total Cost (Labor, ODCs, Fees,Travel)	Sub-contractor (Battelle) Total Billable Labor and ODCs	MPI Fee on Battelle	Sub-contractor fee (Battelle)	Tech Experts Total Cost (Loaded Labor, ODCs, Travel)	Tech Experts Total Billable Labor and ODCs (fee from this)	Other Sub-contractor(s) Total Cost (Labor, ODCs, Travel)	Other Sub-contractor(s) Fee or Profit
Contract Year 3 Rates (2004)	$0.81	$3.37															
Contract Year 4 Rates (2005)	$0.84	$3.50															
Contract Year 5 Rates (2006)	$0.88	$3.50															
(Insert here)								Insert here: 4.61%	10%			4.61%	7%	Insert here: $200	$185	$200	10% 8%
Grade Level	per labor hour	per labor hour															
1.2 Project Support Documentation and Administration (2005)	$0	$0		$0	$0	$0	$0	$0	$0	$7,373	$6,891	$318	$482	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$0	$0	$0	$0	$0	$0	$0	$0	$0	$7,373	$6,891	$318	$482	$0	$0	$0	$0
1.4 Project Communications (2005)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$72,345	$63,292	$2,918	$4,430				
SUBTASK-SUBTOTAL	$0	$0	$0	$0	$0	$0	$0	$0	$0	$72,345	$63,292	$2,918	$4,430	$0	$0	$0	$0
SUBTOTAL	$0	$0	$0	$0	$0	$0	$0	$0	$0	$79,718	$70,183	$3,235	$4,912	$0	$0	$0	$0
2.2b Draft Community Involvement Plan (2005)	$228	$952			$1,180	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$228	$952	$0	$0	$1,180	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTOTAL	$228	$952	$0	$0	$1,180	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
3.3 Technical Support (2005)	$420	$1,750		$0	$2,170	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$420	$1,750	$0	$0	$2,170	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTOTAL	$420	$1,750	$0	$0	$2,170	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TASK ORDER TOTAL WAD 04	$648	$2,702	$0	$0	$3,350	$0	$0	$0	$0	$79,718	$70,183	$3,235	$4,912	$0	$0	$0	$0
1.4c RTC/Final Modeling Plan (2005)	$30	$126	$100	$0	$256	$21,237	$19,306	$890	$1,931	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$30	$126	$100	$0	$256	$21,237	$19,306	$890	$1,931	$0	$0	$0	$0	$0	$0	$0	$0
1.5b Draft Final WP/FSP Volume 1 (2005)	$514	$2,142	$233	$0	$2,889	$0	$0	$0	$0	$5,329	$4,980	$230	$349	$0	$0	$0	$0
1.5c RTC and Final WP/FSP Volume 1 (2005)	$512	$2,135	$300	$0	$2,947	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1.5g Revisions to FSP 3 Geophysical Program (2005)	$28	$116	$0	$0	$144	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$1,054	$4,393	$533	$0	$5,980	$0	$0	$0	$0	$5,329	$4,980	$230	$349	$0	$0	$0	$0
1.6a Preliminary Draft/Outline QAPP/RTC	$210	$875	$63	$0	$1,148	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
1.6c RTC/Final QAPP (2005)	$150	$623	$34	$0	$807	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$360	$1,498	$97	$0	$1,955	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTOTAL	$1,444	$6,017	$730	$0	$8,191	$21,237	$19,306	$890	$1,931	$5,329	$4,980	$230	$349	$0	$0	$0	$0
TASK ORDER TOTAL WAD 05	$1,444	$6,017	$730	$0	$8,191	$21,237	$19,306	$890	$1,931	$5,329	$4,980	$230	$349	$0	$0	$0	$0
2.1 Maintenance and Support (2005)	$269	$1,120	$140	$0	$1,529	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$269	$1,120	$140	$0	$1,529	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTOTAL	$269	$1,120	$140	$0	$1,529	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7.3 Additional Geochemical and Statistical Analysis (2005)	$1,767	$7,364	$200	$0	$9,331	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$1,767	$7,364	$200	$0	$9,331	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7.5a Evaluate Hydrodynamic/SW/Sediment Data	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
7.5b Draft Round 1 Data Gap/Data Eval Report/Supp WP - Geophysical Memo (2005)	$128	$508	$0	$0	$636	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$128	$508	$0	$0	$636	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
SUBTOTAL	$1,895	$7,872	$200	$0	$9,967	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
TASK ORDER TOTAL WAD 06	$2,164	$8,992	$340	$0	$11,496	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
08 TASK ORDER TOTAL WAD 08 (FEE)																	
TASK ORDER TOTAL WADs 04, 05, AND 06	$4,256	$17,711	$1,070	$0	$23,037	$21,237	$19,306	$890	$1,931	$85,047	$75,163	$3,465	$5,261	$0	$0	$0	$0

TASK DESCRIPTION	Subtotal MPI Billable Labor, MPI Fee-Bearing ODCs, and Subcontractors' Total Costs	MPI Travel and Lodging Expenses	Total Cost	MPI Fee	MPI Fee on MPI Labor and ODCs	MPI Fee on Subs	Applicable Fee (MPI Fee on MPI Labor and ODCs + MPI Fee on Subs)	Total Cost Plus Applicable Fee	Percent Obligated	Amount Obligated	Fee Amount Obligated	MPI Travel - No. of miles	MPI Travel - Mileage Cost (# miles x $0.405)	MPI Tolls and Parking	MPI Lodging Cost	MPI Meals and Incidental Expenses	MPI: Other Travel Costs
(Insert here)					Insert here: 7.00%	Insert here: 4.61%											
1.2 Project Support Documentation and Administration (2005)	$7,373	$0	$7,373		$0	$318	$318	$7,691	100%	$7,373		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$7,373	$0	$7,373		$0	$318	$318	$7,691		$7,373		0	$0	$0	$0	$0	$0
1.4 Project Communications (2005)	$72,345	$0	$72,345		$0	$2,918	$2,918	$75,263	100%	$72,345			$0		$0		$0
SUBTASK-SUBTOTAL	$72,345	$0	$72,345		$0	$2,918	$2,918	$75,263		$72,345		0	$0	$0	$0	$0	$0
SUBTOTAL	$79,718	$0	$79,718		$0	$3,236	$3,236	$82,954		$79,718		0	$0	$0	$0	$0	$0
2.2b Draft Community Involvement Plan (2005)	$29,627	$0	$29,627		$2,074	$0	$2,074	$31,701	100%	$29,627			$0				
SUBTASK-SUBTOTAL	$29,627	$0	$29,627		$2,074	$0	$2,074	$31,701		$29,627		0	$0	$0	$0	$0	$0
SUBTOTAL	$29,627	$0	$29,627		$2,074	$0	$2,074	$31,701		$29,627		0	$0	$0	$0	$0	$0
3.3 Technical Support (2005)	$55,383	$0	$55,383		$3,877	$0	$3,877	$59,260	100%	$55,383		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$55,383	$0	$55,383		$3,877	$0	$3,877	$59,260		$55,383		0	$0	$0	$0	$0	$0
SUBTOTAL	$55,383	$0	$55,383		$3,877	$0	$3,877	$59,260		$55,383		0	$0	$0	$0	$0	$0
TASK ORDER TOTAL WAD 04	$164,728	$0	$164,728	$0	$5,951	$3,236	$9,187	$173,915	0%	$164,728	$0	0	$0	$0	$0	$0	$0
1.4c RTC/Final Modeling Plan (2005)	$25,858	$0	$25,858		$323	$890	$1,213	$27,071	100%	$25,858		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$25,858	$0	$25,858		$323	$890	$1,213	$27,071		$25,858		0	$0	$0	$0	$0	$0
1.5b Draft Final WP/FSP Volume 1 (2005)	$80,929	$0	$80,929		$5,292	$230	$5,522	$86,451	100%	$80,929		0	$0	$0	$0	$0	$0
1.5c RTC and Final WP/FSP Volume 1 (2005)	$75,091	$0	$75,091		$5,256	$0	$5,256	$80,347	100%	$75,091		0	$0	$0	$0	$0	$0
1.5g Revisions to FSP 3 Geophysical Program (2005)	$3,489	$0	$3,489		$244	$0	$244	$3,733	100%	$3,489		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$159,509	$0	$159,509		$10,792	$230	$11,022	$170,531		$159,509		0	$0	$0	$0	$0	$0
1.6a Preliminary Draft/Outline QAPP/RTC	$23,710	$0	$23,710		$1,660	$0	$1,660	$25,370	100%	$23,710		0	$0	$0	$0	$0	$0
1.6c RTC/Final QAPP (2005)	$20,000	$0	$20,000		$1,400	$0	$1,400	$21,400	100%	$20,000		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$43,710	$0	$43,710		$3,060	$0	$3,060	$46,770		$43,710		0	$0	$0	$0	$0	$0
SUBTOTAL	$229,077	$0	$229,077		$14,175	$1,120	$15,295	$244,372		$229,077		0	$0	$0	$0	$0	$0
TASK ORDER TOTAL WAD 05	$229,077	$0	$229,077	$0	$14,175	$1,120	$15,295	$244,372	0%	$229,077	$0	0	$0	$0	$0	$0	$0
2.1 Maintenance and Support (2005)	$36,881	$0	$36,881		$2,582	$0	$2,582	$39,463	100%	$36,881		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$36,881	$0	$36,881		$2,582	$0	$2,582	$39,463		$36,881		0	$0	$0	$0	$0	$0
SUBTOTAL	$36,881	$0	$36,881		$2,582	$0	$2,582	$39,463		$36,881		0	$0	$0	$0	$0	$0
7.3 Additional Geochemical and Statistical Analysis (2005)	$209,789	$0	$209,789		$14,685	$0	$14,685	$224,474	100%	$209,789		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$209,789	$0	$209,789		$14,685	$0	$14,685	$224,474		$209,789		0	$0	$0	$0	$0	$0
7.5a Evaluate Hydrodynamic/SW/Sediment Data	$0	$0	$0		$0	$0	$0	$0	0%	$0		0	$0	$0	$0	$0	$0
7.5b Draft Round 1 Data Gap/Data Eval Report/Supp WP - Geophysical Memo (2005)	$15,607	$0	$15,607		$1,092	$0	$1,092	$16,699	100%	$15,607		0	$0	$0	$0	$0	$0
SUBTASK-SUBTOTAL	$15,607	$0	$15,607		$1,092	$0	$1,092	$16,699		$15,607		0	$0	$0	$0	$0	$0
SUBTOTAL	$225,396	$0	$225,396		$15,777	$0	$15,777	$241,173		$225,396		0	$0	$0	$0	$0	$0
TASK ORDER TOTAL WAD 06	$262,277	$0	$262,277		$18,359	$0	$18,359	$280,636		$262,277		0	$0	$0	$0	$0	$0
08 TASK ORDER TOTAL WAD 08 (FEE)				$42,841					100%		$42,841						
TASK ORDER TOTAL WADs 04, 05, AND 06	$656,082	$0	$656,082	$42,841	$38,485	$4,356	$42,841	$698,923		$656,082	$42,841	0	$0	$0	$0	$0	$0

$698,923 TOTAL WITH FEE

ESTIMATED COSTS FOR LOWER PASSAIC RIVER RESTORATION PROJECT
HYDROQUAL, INC. UNDER SUBCONTRACT TO MALCOLM PIRNIE, INC.
CONTRACT NO. DACW41-02-D-0003

TITLE:	Group 1	Group 2	Group 3	Group 4	Group 5
Contract Year 3 Rates (2004)	$166.96	$142.90		$100.15	
Contract Year 4 Rates (2005) [Jan01 - Dec 31]	$188.83	$163.91	$144.01	$113.83	$78.29
Contract Year 5 Rates (2006) [need to update]	$196.38	$170.47	$149.77	$118.38	$81.42

WAD	WO	TASK DESCRIPTION	Total Labor Hours	Total Billable Labor	ODC	Profit	Travel No. of Round Trips from Mahwah to New York (60 miles RT)	Travel No. of Roundtrips from Mahwah to Newark, NJ (50 miles RT)	Travel Milage Costs @ .365/Mile	Tolls: $/ Round Trip	No. of Lodging and Meal Days	Lodging	Meals and Incidental Expenses	Other Travel Costs	Total Travel Cost	Total Cost (Including Fee)
05		Technical Studies & Investigations														
05	1	Work Plan Preparation														
	1.4	*Modeling Plan*														
		1.4c RTC/Final Modeling Plan (2005)	116	$19,115	$191	$1,931									$0	$21,237
		SUBTASK-SUBTOTAL	116	$19,115	$191	$1,931	0	0	$0	$0	0	$0	$0	$0	$0	$21,237
		SUBTOTAL	116	$19,115	$191	$1,931	0	0	$0	$0	0	$0	$0	$0	$0	$21,237
		TASK ORDER TOTAL WAD 05	116	$19,115	$191	$1,931	0	0	$0	$0	0	$0	$0	$0	$0	$21,237
		TASK ORDER TOTAL	116	$19,115	$191	$1,931	0	0	$0	$0	$0	$0	$0	$0	$0	$21,237

Lower Passaic River
T.O. No. 0011, Mod. 07
August 17, 2005
Battelle

ESTIMATED COSTS FOR LOWER PASSAIC RIVER RESTORATION PROJECT
BATTELLE UNDER SUBCONTRACT TO MALCOLM PIRNIE, INC.
CONTRACT NO. DACW41-02-D-0003

Battelle Proposal No. (TBD)	Technical Director (Gutbransen)	Project Manager (Barrows)	Database Manager	Database Specialist 1	Database Specialist 2	IT Level 1, Engineer 1 or Statistician	IT Level 2	Field Scientist 1	Field Scientist 2	Quality Assurance Manager (Buhl)	Researcher 1 (Schaub)	Researcher 2 (Gnatek, Manley)	Researcher 3	Technical Expert (Albro)	Risk Assessor 1 (Gunster, Kelley)	Risk Assessor 2 (Bonnevie, Rodgers)	Sr. Chemist	Production (Mongin)	Admin. Assistant	Project Administrator (Larson)	Total Labor Hours	Total Billable Labor	ODCs	Profit or Fee	Travel No. of Round Trips from Duxbury/Boston, MA to NY, NY; or Fair Lawn, NJ; or White Plains, NY	Travel No. of Roundtrips from Stony Brook, NY to NY, NY; Fair Lawn, NJ; or White Plains, NY	Airfare or Train Boston-NY (# Round Trip * $498/Trip)	Round Trip Train from Stony Brook, NY to NY, NY; Fair Lawn, NJ @ $30/trip	Auto Travel Mileage Costs @ .405/Mile	Tolls: $10/ Round Trip	Total No. of Overnights	No. of Meal Days	Hotel NY City = $165/Night Meals= $46/Day Total= $211/Day	Meals and Incidental Expenses [for day trip] ($25)	Other Travel Costs	Total Travel Cost	Total Cost (Including Fee)
Contract Year 4 Rates (2005)	$171.00	$149.00	$144.00	$87.00	$77.00	$146.00	$109.00	$120.00	$103.00	$105.00	$90.00	$87.00	$77.00	$220.00	$165.00	$134.00	$173.00	$57.00	$73.00	$84.00																
Contract Year 5 Rates (2006)	$178.00	$155.00	$150.00	$91.00	$80.00	$152.00	$113.00	$125.00	$107.00	$109.00	$94.00	$91.00	$80.00	$229.00	$172.00	$139.00	$180.00	$59.00	$76.00	$87.00																

Please note: These costs are provided for budgetary planning purposes only and should not be considered a formal offer from Battelle at this time.

Should you wish to pursue the outlined plan further, a formal proposal will be submitted by Battelle's contracting office for your approval.

WAD	WO	TASK DESCRIPTION																																			
04		**Project Management & Community Relations**																																				
	1	**Project Management and Administration**																																				
	1.2	***Project Support Documentation and Administration (2005)***	0	39	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	51	$8,891		$482	0	0	$0	$0	$ -	$0	0	0	$0	$0	$0	$7,373
		SUBTASK-SUBTOTAL	0	39	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	51	$6,891	$0	$482	0	0	$0	$0		$0	0	0	$0	$0	$0	$7,373
	1.4	***Project Communications (Teleconferences, Meetings) (2005)***	26	62									26	70			198	48	12				442	$63,292		$4,430	5	2	$2,490	$60	$ 198	$20	5	2	$1,055	$50	$750	$4,623	$72,345
		SUBTASK-SUBTOTAL	26	62	0	0	0	0	0	0	0	0	26	70	0	0	198	48	12	0	0	0	442	$63,292	$0	$4,430	5	2	$2,490	$60	$198	$20	5	2	$1,055	$50	$750	$4,623	$72,345
		SUBTOTAL	26	101	0	0	0	0	0	0	0	0	38	70	0	0	198	48	12	0	0	0	493	$70,183	$0	$4,912	5	2	$2,490	$60	$198	$20	5	2	$1,055	$50	$750	$4,623	$79,718
		TASK ORDER TOTAL WAD 04	26	101	0	0	0	0	0	0	0	0	38	70	0	0	198	48	12	0	0	0	493	$70,183	$0	$4,912	5	2	$2,490	$60	$198	$20	5	2	$1,055	$50	$750	$4,623	$79,718
05		**Technical Studies & Investigations**																																				
	1	**RI/FS Work Plan Preparation**																																				
	1.5	***RI Work Plan (WP) and Field Sampling Plan (FSP)***																																				
		1.5b Draft Final WP/FSP Volume 1 (2005)	5	5													10		10				30	$4,980		$349											$0	$5,329
		1.5c RTC and Final WP/FSP Volume 1 (2005)																					0	$0		$0			$0		$ -				$0	$0	$0	$0
		SUBTASK-SUBTOTAL	5	5	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	0	0	$ 30	$ 4,980	$ -	$ 349	0	0	$0	$0	$0	$0	0	0	$0	$0	$0	$5,329
		SUBTOTAL	5	5	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	0	0	30	$4,980	$0	$349	0	0	$0	$0	$0	$0	0	0	$0	$0	$0	$5,329
		TASK ORDER TOTAL WAD 05	5	5	0	0	0	0	0	0	0	0	0	0	0	0	10	0	10	0	0	0	30	$4,980	$0	$349	0	0	$0	$0	$0	$0	0	0	$0	$0	$0	$5,329
		TASK ORDER TOTAL WADS 04 and 05	31	106	0	0	0	0	0	0	0	0	38	70	0	0	208	48	22	0	0	0	523	$75,163	$0	$5,261	5	2	$2,490	$60	$198	$20	5	2	$1,055	$50	$750	$4,623	$85,047